Genie®
A TEREX COMPANY

Parts Manual

Serial Number Range

TML-4000
from TML01-226

TML-4000N
from TML01-226

First Edition
First Printing
Part No. 116471
September 2008

Introduction

Important

Read, understand and obey the safety rules and operating instructions in the appropriate Operator's Manual on your machine before attempting any maintenance procedure.

Basic mechanical, hydraulic and electrical skills are required to perform most procedures. However, several procedures require specialized skills, tools, lifting equipment and a suitable workshop. In these instances, we strongly recommend that maintenance and repair be performed at an authorized Genie dealer service center.

Technical Publications

Genie Industries has endeavored to deliver the highest degree of accuracy possible. However, continuous improvement of our products is a Genie policy. Therefore, product specifications are subject to change without notice.

Readers are encouraged to notify Genie of errors and send in suggestions for improvement. All communications will be carefully considered for future printings of this and all other manuals.

Serial Number Information

Genie Industries offers the following manuals for these models:

Title	Part No.
Genie TML-4000N Operator's Manual, Third Edition	97600
Genie TML-4000N Parts Manual, First Edition	116471
Genie TML-4000N Service Manual, First Edition	116472

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First Edition, First Printing

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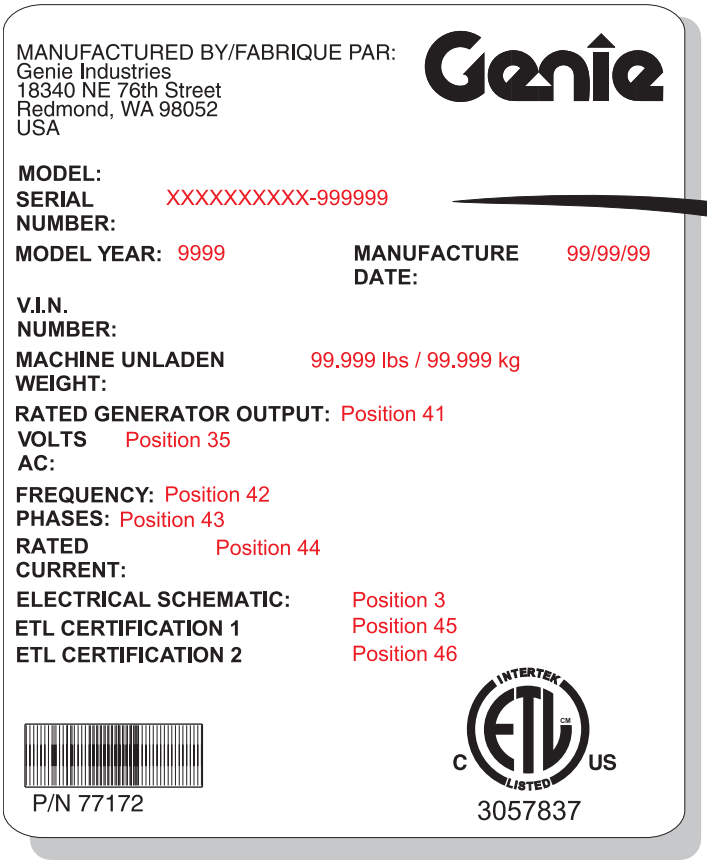
"TML" is a trademark of Genie Industries.

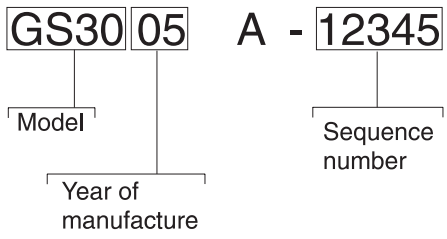
♻ Printed on recycled paper

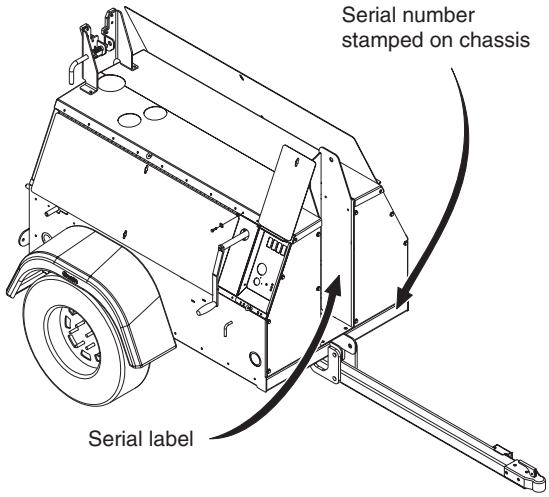
Printed in U.S.A.

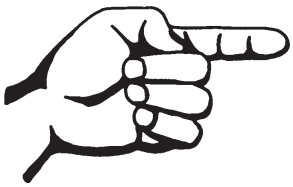
How to Read Your Serial Number

Serial Number Legend









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Safety Rules

Danger

Failure to obey the instructions and safety rules in this manual and the appropriate Operator's Manual on your machine will result in death or serious injury.

Many of the hazards identified in the operator's manual are also safety hazards when maintenance and repair procedures are performed.

Do Not Perform Maintenance Unless:

- ☑ You are trained and qualified to perform maintenance on this machine.
- ☑ You read, understand and obey:
  - manufacturer's instructions and safety rules
  - employer's safety rules and worksite regulations
  - applicable governmental regulations
- ☑ You have the appropriate tools, lifting equipment and a suitable workshop.

SAFETY RULES

Personal Safety

Any person working on or around a machine must be aware of all known safety hazards. Personal safety and the continued safe operation of the machine should be your top priority.

Read each procedure thoroughly. This manual and the decals on the machine, use signal words to identify the following:

Safety alert symbol—used to alert personnel to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠CAUTION Indicates a potentially hazardous situation which, if not avoided, may cause minor or moderate injury.

NOTICE Indicates a potentially hazardous situation which, if not avoided, may result in property damage.

Be sure to wear protective eye wear and other protective clothing if the situation warrants it.

Be aware of potential crushing hazards such as moving parts, free swinging or unsecured components when lifting or placing loads. Always wear approved steel-toed shoes.

Workplace Safety

Be sure to keep sparks, flames and lighted tobacco away from flammable and combustible materials like battery gases and engine fuels. Always have an approved fire extinguisher within easy reach.

Be sure that all tools and working areas are properly maintained and ready for use. Keep work surfaces clean and free of debris that could get into machine components and cause damage.

Be sure any forklift, overhead crane or other lifting or supporting device is fully capable of supporting and stabilizing the weight to be lifted. Use only chains or straps that are in good condition and of ample capacity.

Be sure that fasteners intended for one time use (i.e., cotter pins and self-locking nuts) are not reused. These components may fail if they are used a second time.

Be sure to properly dispose of old oil or other fluids. Use an approved container. Please be environmentally safe.

Be sure that your workshop or work area is properly ventilated and well lit.

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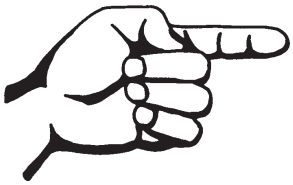

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Parts Stocking List

Required Parts

The following parts are required to perform maintenance procedures as outlined in the *Genie TML-4000 and TML-4000N Parts and Service Manual.*

Description	Part No.
Perkins 403D-11G Models	
Dielectric Grease	66399
Oil Filter	94762
Air Filter	97474
Fuel Filter	62421
V-belt	85071
Valve Cover Breather	84860
Lombardini Models	
Dielectric Grease	66399
Oil Filter	80053

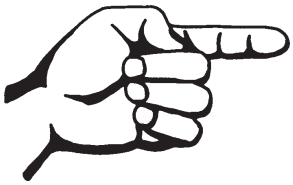
Recommended Parts

Description	Part No.
Genie Gray Paint, 12 Ounce (355 ml) Aerosol	1268
Genie Blue Paint, 12 Ounce (355 ml) Aerosol	1484
Genie Blue Paint, 1 Gallon (3.78 liters)	32150
Genie Gray Paint, 1 Gallon (3.78 liters)	32151

Manuals

Genie Industries offers the following support documents for these models:

Title	Part No.
Genie TML-4000 and TML-4000N Operator's Manual, Third Edition (after serial number TML04-559)	97600
Manual of Responsibilities ANSI A92.3	31587



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How To Order Parts

Please be prepared with the following information when ordering replacement parts for your Genie product:

- ☑ Machine model number
- ☑ Machine serial number
- ☑ Genie part number
- ☑ Part description and quantity
- ☑ Purchase order number
- ☑ "Ship to" address
- ☑ Desired method of shipment
- ☑ Name and telephone number of the authorized Genie Distributor in your area

Use the Service Parts Fax Order Form on the next page and fax your order to our Parts Department.

If you don't know the name of your authorized distributor, or if your area is not currently serviced by an authorized distributor, please call Genie Industries.

Machine Information

Model

Serial Number

Date of Purchase

Authorized Genie Distributor

Phone Number

Genie North America
Telephone (425) 556-6551
Toll Free (877) 367-5606 in U.S.A. and Canada
Fax (425) 556-8659

Genie UK
Parts Telephone (44) (0) 1476 584352
Parts Fax (44) (0) 1476 584340

Genie Australia
Parts Telephone (617) 03375 1660
Parts Fax (617) 03375 1002

Genie France
Parts Telephone (33) (0) 237 26 09 99
Parts Fax (33) (0) 237 31 50 10

Genie Germany
Parts Telephone (49) (0) 4202 885223
Parts Fax (49) (0) 4202 885225

Genie Scandinavia
Parts Telephone (46) (31) 3409612
Parts Fax (46) (31) 3409613

Genie Iberica
Parts Telephone (34) (93) 5795042

Genie Brazil
Parts Telephone (55) (114) 1665755
Parts Fax (55) (114) 1665754

Genie Japan
Parts Telephone (81) (33) 4536082
Parts Fax (81) (33) 4536083

Genie China
Parts Telephone (86) (215) 3852570
Parts Fax (86) (215) 3852569

Genie
A TEREX COMPANY

Service Parts Fax Order Form

Fax to: (425) 556-8659 or Toll Free: 888-274-6192
International: +1-425-556-8659

Please fill out completely

Date _____ Account Number _____

Your Name _____ Your Fax Number _____

_____ Your Phone Number _____

Bill To _____ Ship To _____

_____ _____

_____ _____

_____ _____

Purchase Order Number _____ Ship Via _____

Model(s) _____ **Serial No.(s)** _____

Optional Equipment _____

Part Number	Description	Quantity	Price

All back-ordered parts will be shipped when available via the same ship method as the original order unless Noted below:

- ☐ Ship complete order only - No back orders
- ☐ Ship all available parts and contact customer on disposition of back-ordered parts
- ☐ Other (please specify)

FOR GENIE INDUSTRIES USE ONLY

Order Number _____ Origin Code _____ Comments _____

Date Scheduled _____ Ship Condition _____ _____

Order Total _____ Terms Code _____ _____

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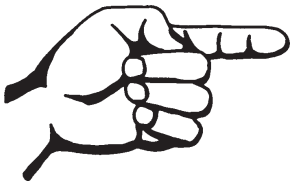

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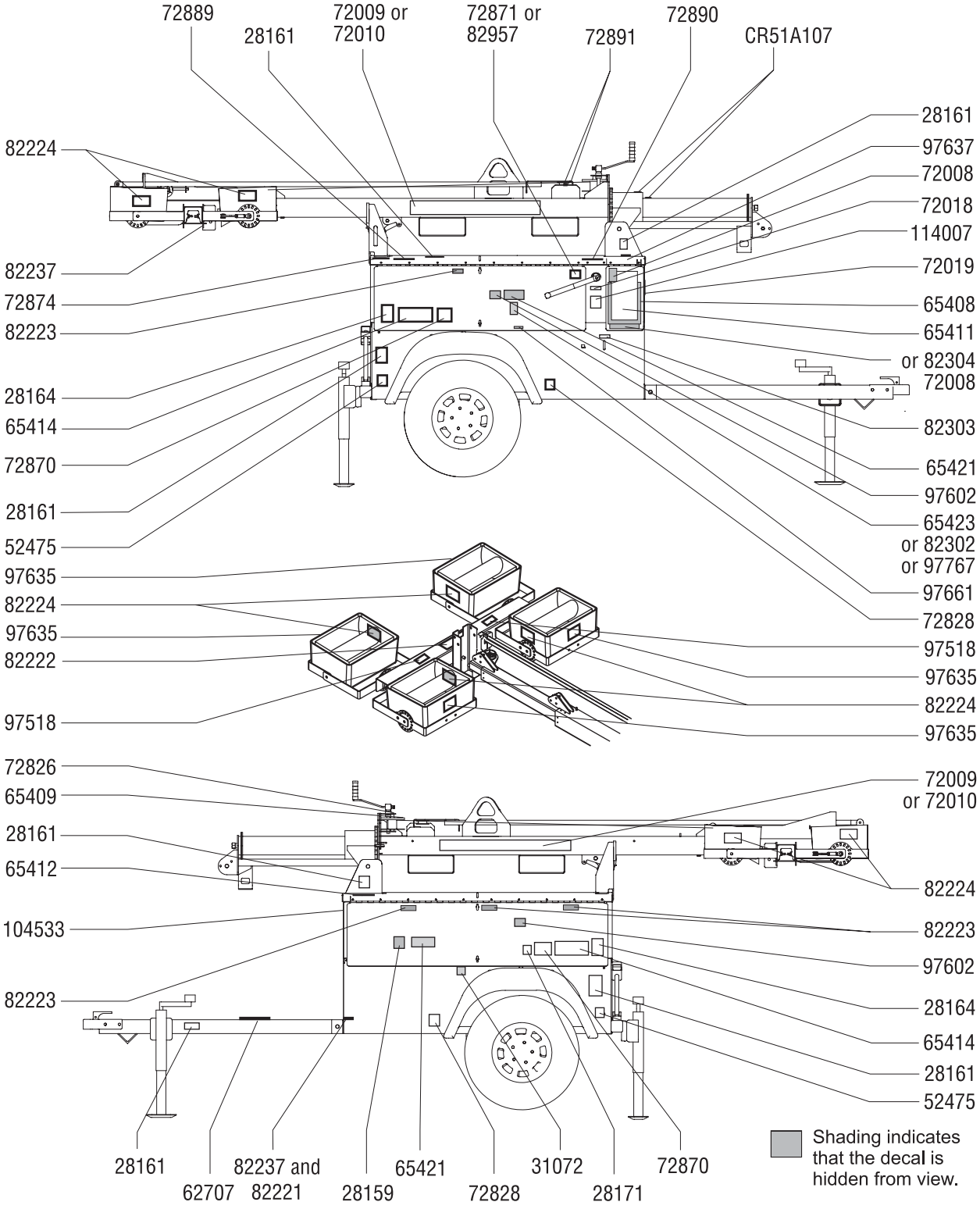
Section 100

Decals

Figure 101.1

REV A

Decals



REV A FIGURE 101.1

Item	Part No.	Description	Qty.
—	97306	Decal Kit - Safety/Instructional, TML-4000N, Deutz F3M-1008 (includes items 1-15, 18-22, 24-29, 32, 35, 36, 38-46 and 48)	
—	97307	Decal Kit - Safety/Instructional, TML-4000, Deutz F3M-1008 (Includes items 1-15,18-22, 24-29, 32-36, 38-46 and 48)	
—	116028	Decal Kit - Safety/Instructional, TML-4000N, Lombardini LDW-1003/L (includes items 1-15, 18-22, 24-29, 32, 35, 36, 38-46 and 48)	
—	116029	Decal Kit - Safety/Instructional, TML-4000, Lombardini LDW-1003/L (Includes items 1-15,18-22, 24-29, 32-36, 38-46 and 48)	
—	97308	Decal Kit - Safety/Instructional, TML-4000N, Perkins 103-10 (includes items 1-13, 15, 18-22 24-29,32-36, 38-46 and 48)	
—	97309	Decal Kit - Safety/Instructional, TML-4000, Perkins 103-10 (includes items 1-13. 15, 18-22, 24-29, 32-46 and 48)	
1	28159	Label - Diesel	1
2	28161	Warning - Crushing Hazard	6
3	28164	Notice - Hazardous Materials	2
4	28171	Label - No Smoking	1
5	31072	Manual Storage Container	1
6	52475	Label - Transport Tie-down	2
7	62707	Warning - Tow Speed	1
8	65408	Notice - Operating Instructions	1
9	65409	Notice - Mast Rotation Instructions	1
10	65411	Warning - General Safety	1
11	65412	Warning - Transport Instructions	1
12	65414	Danger - Electrocution Hazard	2
13	65421	Warning - Electrocution, Generator	2
14	65423	Notice - Deutz Engine Specs	1
15	72008	Caution - Turn Off Lights	1
16	72009	Cosmetic - Genie TML-4000	2
17	72010	Cosmetic - Genie TML-4000N	2
18	72018	Label - Raise/Lower Winch	1
19	72019	Danger - High Voltage	1
20	CR51A107	Label - Black Arrow	1
21	72826	Label - Extend/Retract Winch	1
22	72828	Notice - Tire Specifications	2
24	72870	Caution - Component Contact	2
25	72871	Label - Power Outlet, 120V AC	1
26	72874	Label - Locked, Unlocked	1
27	72889	Warning - Transport Hazard	1
28	72890	Notice - Mast Retraction	1
29	72891	Label - Blue Arrow	2
30	80321	Serial Plate and NHTSA Label (before serial number TML04-591)	1
31	82219	Label - Power Outlets Under Cover (before serial number TML02-522)	1
32	82221	Danger - Electrocution Hazard (located under ballast cover)	1
33	82222	Caution - Light Storage, Standard Models	1
34	82223	Label - Light Storage, Standard Models	4
35	82224	Label - HOT	8
36	82237	Danger - High Voltage (located under ballast cover)	1
37	97767	Notice - Engine Specifications,	
38	82303	Label - Mast Release Latch	1
39	82304	Control Panel	1
40	82957	Label - Power Outlets Under Cover	1
41	97518	Notice - Lamp Disposal	2

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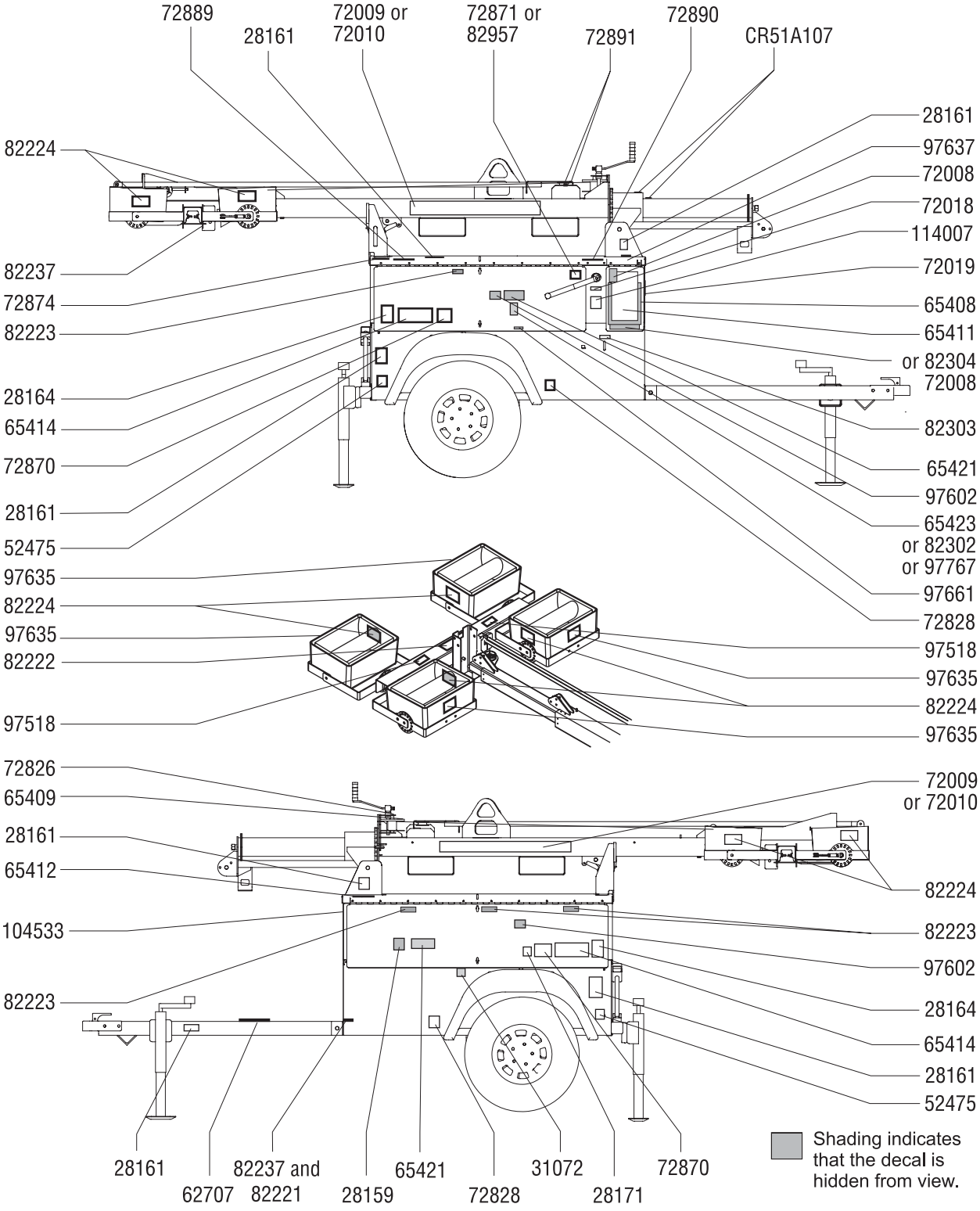
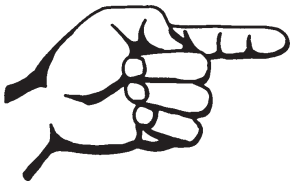
FIGURE 101.1 REV A



REV A

FIGURE 101.1

Item	Part No.	Description	Qty.
42	97602	Warning - Explosion Hazard, Ether	2
43	97635	Warning - Bodily Injury Hazard	4
44	97637	Label - Wet Locations	1
45	97638	Label - Lamp Replacement	1
46	97661	Label - Grounding Rod Attachment	1
47	104533	Serial Number Label	1
48	114007	Caution - Latch Release	1



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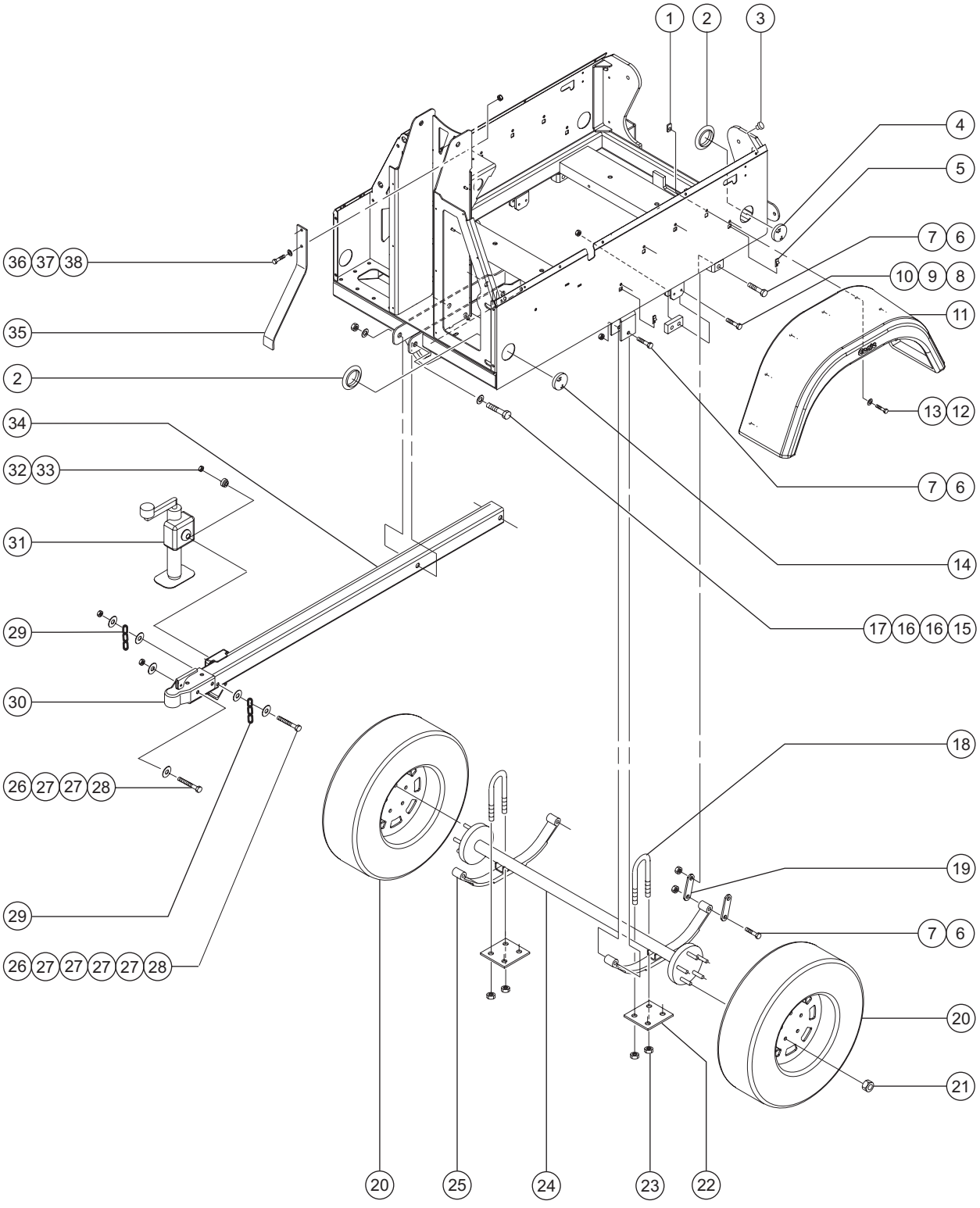
Section 200

Base Components

Figure 201.1

REV A

Axle and Tongue Components



REV A

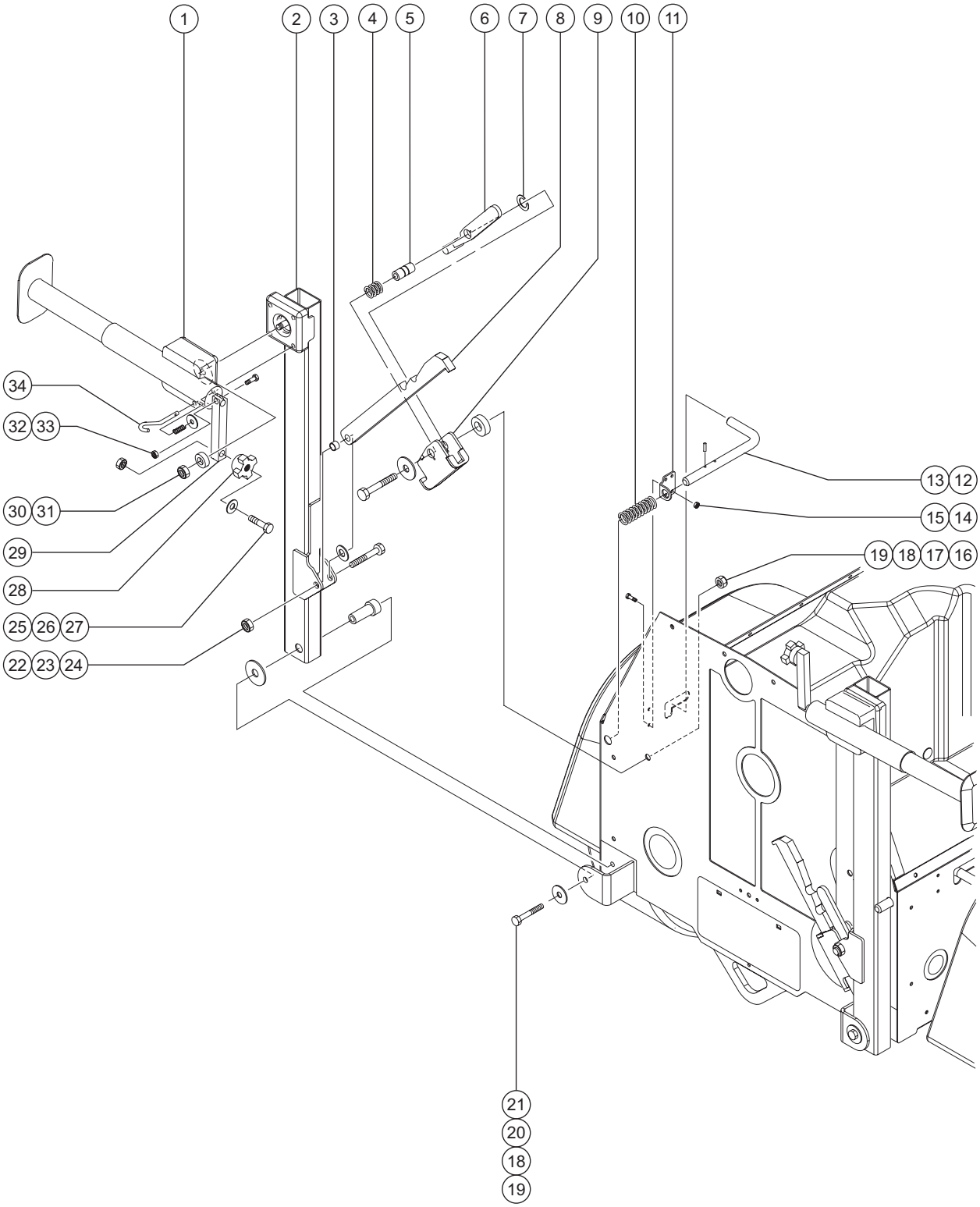
FIGURE 201.1

Item	Part No.	Description	Qty.
1	25969	Spring Clip, 1/4 -20	
2	80370	Side Marker Grommet	
3	46716	Rubber Bumper	10
4	80368	Side Marker Light	
5	39560	Cable Tie Mount Clip	5
6	80417	Suspension Mount Bolt, 7/16 -20 x 2.5 inches	6
7	80418	Flange Nut, 7/16 -20	
8	4266	Screw - HHC, 1/4 -20 x 2 inches, GR 5	
9	80340	Suspension Stop, TML-4000	2
—	80334	Suspension Stop, TML-4000N	
10	6091	Nylock Nut, 1/4 -20	
11	57710	Fender	2
12	6888	Screw - HHC, 1/4 -20 x 1 inch, GR 5	
13	6638	Flat Washer, 1/4 inch	
14	80369	Side Marker Light	
15	10006	Screw - HHC, 3/4 -10 x 5 inches, GR 5	
16	10256	Flat Washer, 13/16 inch	
17	10258	Nylock Nut, 3/4 -10	
18	57570	U-Bolt, Axle Mount, TML-4000	4
—	57549	U-Bolt, Axle Mount, TML-4000N	
19	57393	Axle Spring Hanger Plate	2
20	116021	Tire and Wheel Assembly TML-4000N	2
—	116025	Wheel, 13 inches TML-4000N	
—	116023	Tire, ST 175/80D13 TML-4000N	
20	116022	Tire and Wheel Assembly TML-4000N	2
—	116026	Wheel, 15 inches TML-4000N	
—	116024	Tire, ST 205/75D15 TML-4000N	
21	46717	Acorn Nut, 1/2 -20	10
22	57572	Axle Mount Plate, TML-4000	2
—	57551	Axle Mount Plate, TML-4000N	
23	57571	Flange Nut, 1/2 -20, TML-4000	8
—	57550	Flange Nut, 3/8 -24, TML-4000N	
24	57568	Axle, 3500 lbs Capacity, TML-4000	1
—	57546	Axle, 2000 lbs Capacity, TML-4000N	
25	57567	Double Eye Leaf Spring, 2000 lbs Capacity, TML-4000	2
—	69211	Double Eye Leaf Spring, 1400 lbs Capacity, TML-4000N	
26	12461	Screw - HHC, 1/2 -13 x 5 inches, GR 8	
27	13066	Flat Washer, 1/2 inch	
28	6198	Nylock Nut, 1/2 -13	
29	46715	Safety Chain	2
30	57332	Hitch Coupler Assembly, 2 inch ball (shown)	1
—	57625	Standard Hitch Assembly (includes items 30, 31 and 34)	
30	69937	Hitch Coupler Combo Assembly with Pintle Ring	
—	59720	Pintle Ring	
—	67535	Coupler 2 inch Ball Lever Lock	
31	57331	Tongue Screw Jack (includes mounting hardware)	1
32	6034	Jam Nut, 1/2 -13, GR 2	
33	80231	Screw Jack Spacer	1
34	97333	Tongue Assembly with Decals	1
35	57470	Mast Spring	1
36	6019	Screw - HHC, 3/8 -16 x 1.25 inches, GR 5	
37	5397	Flat Washer, 5/16 inch	
38	4828	Nylock Nut, 3/8 -16	

Figure 202.1

REV A

Outrigger Components



REV A

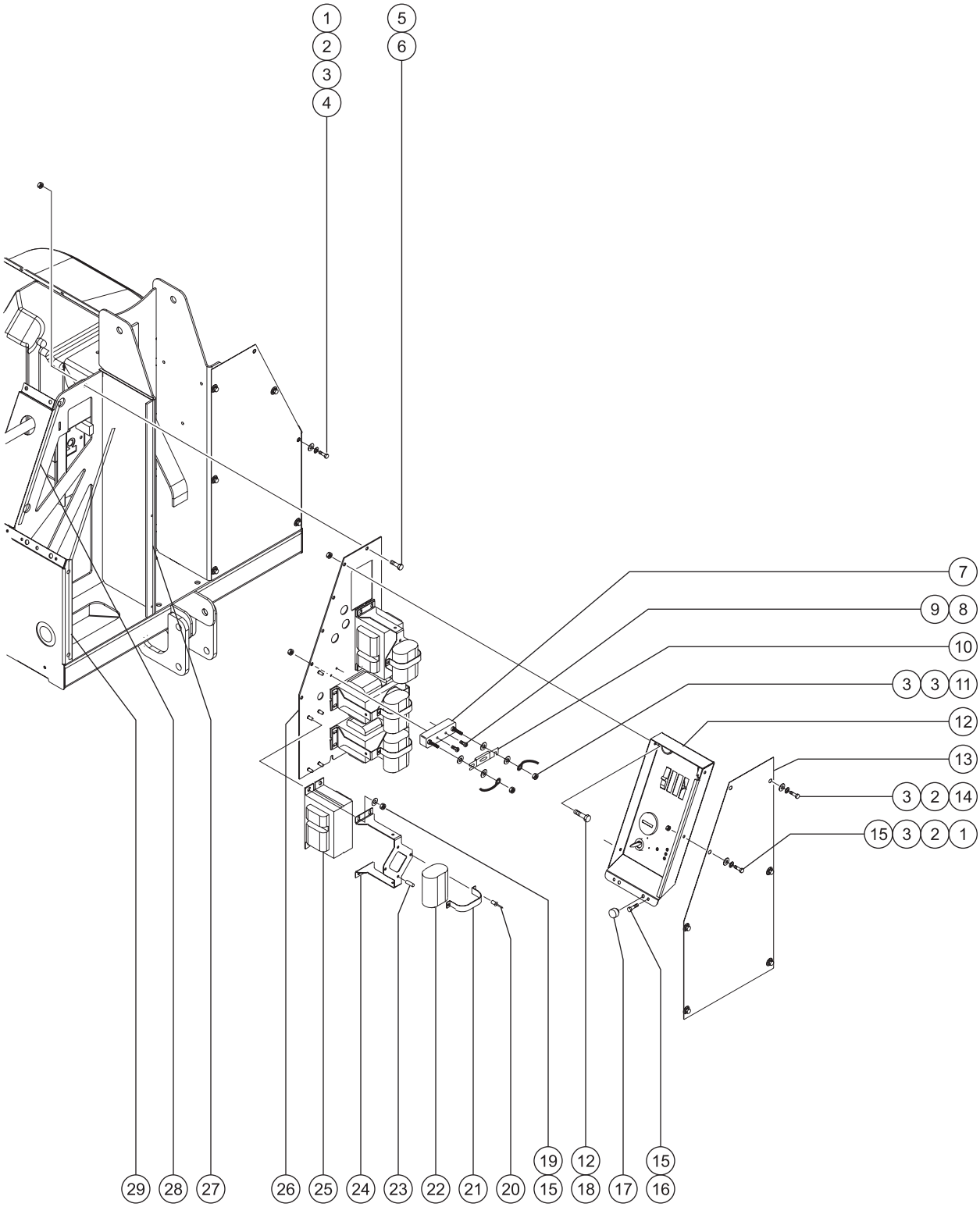
FIGURE 202.1

Item	Part No.	Description	Qty.
1	57331	Outrigger Screw Jack	2
2	69818	Outrigger, Tank Side	1
—	69809	Outrigger, Engine Side	
3	69815	Sleeve Spacer, 0.63 x 0.75 x 0.5 inch	2
4	69814	Torsion Spring, 0.88 x 0.5 inch	2
5	69813	Outrigger Strut Guide Bushing	2
6	69800	Outrigger Handle	2
7	32499	Retainer Clip, 0.88 inch	2
8	80003	Outrigger Strut	2
9	80000	Outrigger Strut Guide	2
10	69649	Compression Spring, 0.953 x 4.38 inches	2
11	69990	Outrigger Pin Bracket	2
12	69667	Lock Pin	2
13	22547	Roll Pin, 3/16 x 1.25 inches	
14	6091	Nylock Nut, 1/4 -20	
15	8914	Screw - HHC, 1/4 -20 x 0.625 inch, GR 5	
16	6198	Nylock Nut, 1/2 -13	
17	80323	Strut Guide Spacer	2
18	6095	Flat Washer, 1/2 inch	
19	13854	Screw - HHC, 1/2 -13 x 4.5 inches, GR 8	4
20	33373	Flat Washer, 0.89 x 1.5 x 0.09 inch	
21	80203	Outrigger Pivot Bushing	2
22	38028	Low Profile Nylock Nut, 5/8 -11	
23	42191	Hardened Flat Washer, 0.64 x 1.16 x 0.09 inch	2
24	51131	Screw - HHC, 5/8 -11 x 2.5 inches, GR 5	
25	5224	Screw - HHC, 3/8 -16 x 2 inches, GR 5	
26	6097	Flat Washer, 3/8 inch	
27	46017	Jam Nut, 3/8 -16	
28	80130	Outrigger Screw Jack Knob	2
29	80232	Outrigger Screw Jack Handle Kit (includes items 5, 30, 32 and 33)	2
30	6034	Jam Nut, 1/2 -13, GR 2	
31	80231	Outrigger Screw Jack Handle Spacer	2
32	69879	Jam Nut, 1/4 -20	2
33	8915	Screw - HHC, 1/4 -20 x 1.25 inches, GR 5	
34	80127	Pull Pin Kit	1
—	80128	Pull Pin	
—	80129	Pull Pin Compression Spring, 0.66 x 1.38 inches	
—	13066	Flat Washer, 1/2 inch	
—	2161	Cotter Pin, 1/16 x 1 inch	

Figure 203.1

REV A

Control Box and Electrical Components



REV A

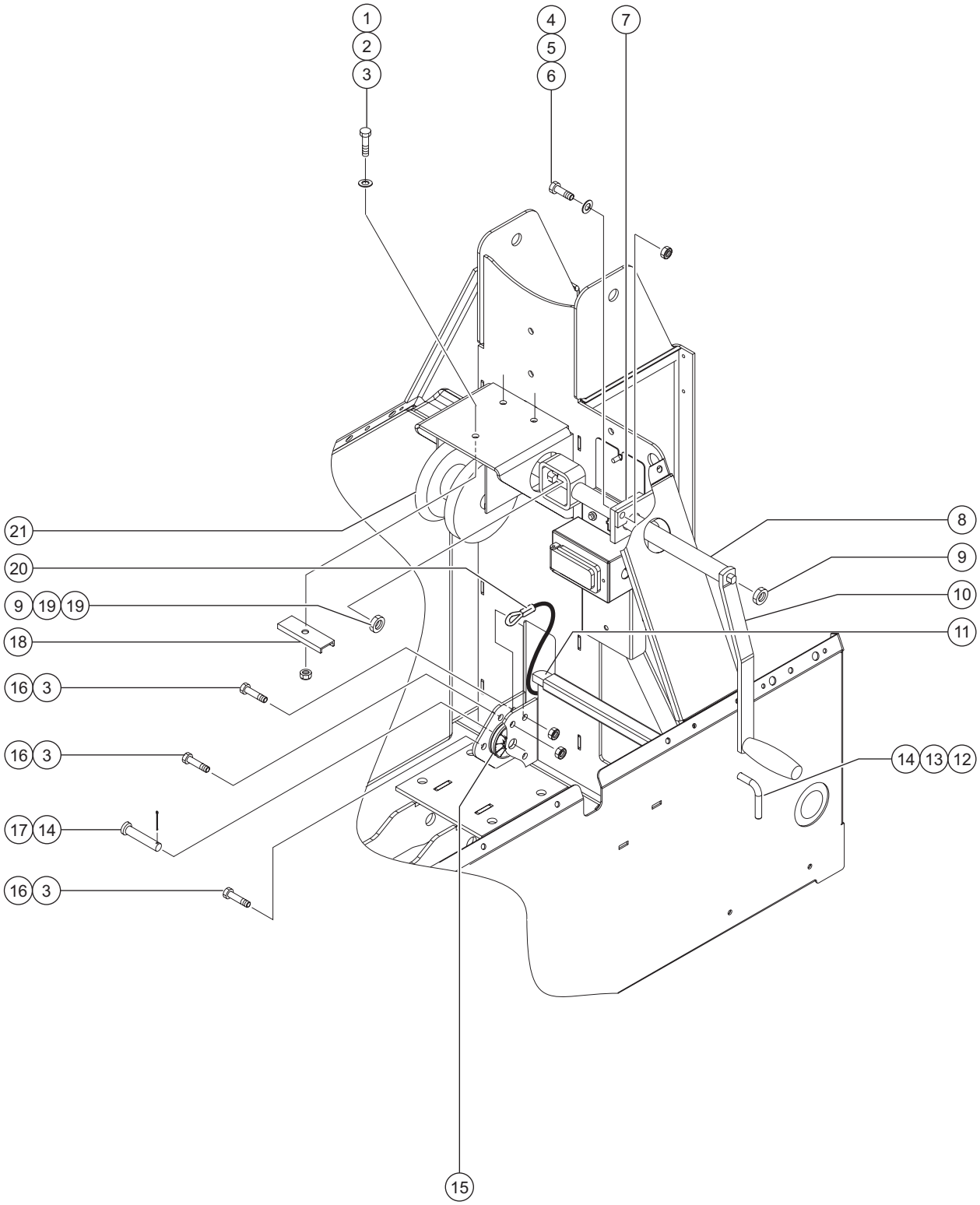
FIGURE 203.1

Item	Part No.	Description	Qty.
1	6888	Screw - HHC, 1/4 -20 x 1 inch, GR 5	
2	6356	Lock Washer, 1/4 inch	
3	6638	Flat Washer, 1/4 inch	
4	25969	Spring Clip, 1/4 -20	
5	6019	Screw - HHC, 3/8 -16 x 1.25 inches, GR 5	
6	4828	Nylock Nut, 3/8 -16	
7	66717	Fuse Holder	1
8	6873	Screw - FHSM, 10-32 x 1 inch, GR 2	
9	14392	Low Profile Nylock Nut, 10-32	
10	36372	Fuse, 50A, Very Fast Acting	1
11	6002	Low Profile Nylock Nut, 5/16 -18	
12	Ref.	Control Box (refer to Figure 8-F.1, 8-F.2 or 8-F.3)	
13	69983	Front Cover, TML-4000	2
—	87797	Front Cover, TML-4000N	
14	6090	Screw - HHC, 1/4 -20 x 0.75 inch, GR 5	
15	6091	Nylock Nut, 1/4 -20	
16	8914	Screw - HHC, 1/4 -20 x 0.625 inch, GR 5	
17	46716	Rubber Bumper	2
18	10107	Screw - HHC, 5/16 -18 x 0.75 inch, GR 5	
19	33277	Flat Washer, M8	
20	6271	Steel Rivet, 1/4 x 0.25 inch	
21	80544	Rubber Cushioned Clamp, 1.75 x 0.25 inch	4
22	69884	Capacitor, 480V AC, 60 Hz	4
—	85201	Capacitor, 540V AC, 50 Hz	
23	4512	Nylon Spacer, 0.25 x 0.69 x 0.25 inch	
24	69719	Capacitor Mount Bracket	4
25	69798	Ballast and Capacitor Assembly, 120/240V AC, 60 Hz (includes item 22)	4
—	80350	Ballast and Capacitor Assembly, 120/240V AC, 50 Hz (includes item 22)	
26	80694	Ballast Mount Panel	1
27	69773	Weather-stripping, 3/8 inch	10 inches
28	69773	Weather-stripping, 3/8 inch	15 inches
29	69773	Weather-stripping, 3/8 inch	28 inches

Figure 204.1

REV A

Winch installation



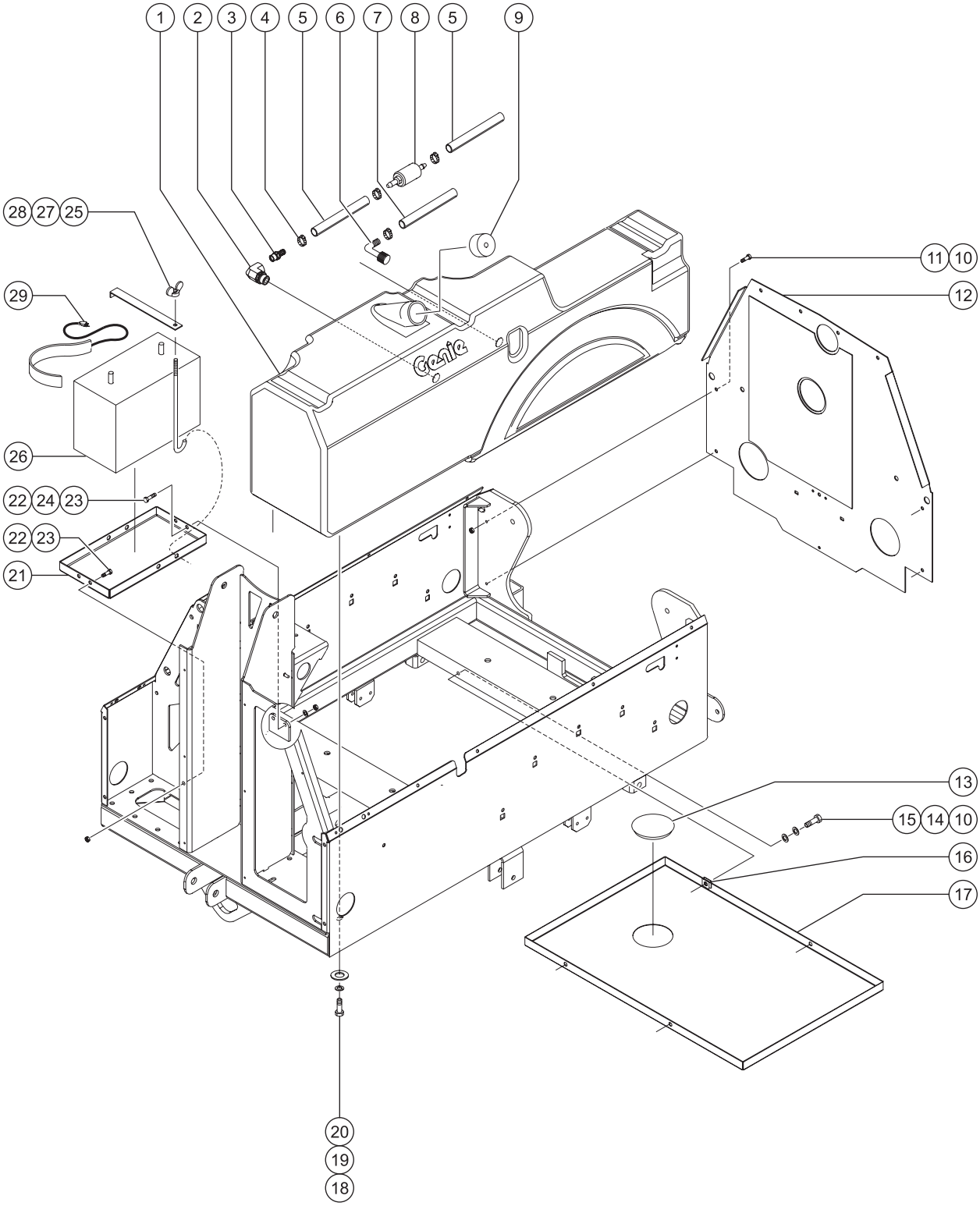
REV A FIGURE 204.1

Item	Part No.	Description	Qty.
—	104189	Winch Bracket	
1	6019	Screw - HHC, 3/8 -16 x 1.25 inches, GR 5	
2	5397	Flat Washer, 5/16 inch	
3	4828	Nylock Nut, 3/8 -16	
4	6888	Screw - HHC, 1/4 -20 x 1 inch, GR 5	
5	6638	Flat Washer, 1/4 inch	
6	6091	Nylock Nut, 1/4 -20	
7	69736	Crank Handle Guide	1
8	69981	Crank Handle Extension, TML-4000	1
—	57408	Crank Handle Extension, TML-4000N	
9	6086	Low Profile Nylock Nut, 1/2 -13	
10	16342	Winch Handle	
11	69673	Mast Lock Bar	1
12	69654	Mast Lock Handle	1
13	69638	Compression Spring, 0.75 x 8 inches	1
14	6094	Cotter Pin, 1/8 x 1 inch	
15	57316	Mast Cable Pulley	1
16	8516	Screw - HHC, 3/8 -16 x 1.5 inches, GR 5	
17	69680	Clevis Pin, 5/8 x 1.5 inches	
18	15657	Winch Reinforcement Plate	1
19	6034	Jam Nut, 1/2 -13, GR 2	
20	80107	Mast Pivot Cable Assembly	1
21	14085	Winch	

Figure 205.1

REV A

Fuel Tank, Battery and Engine Tray Components



REV A

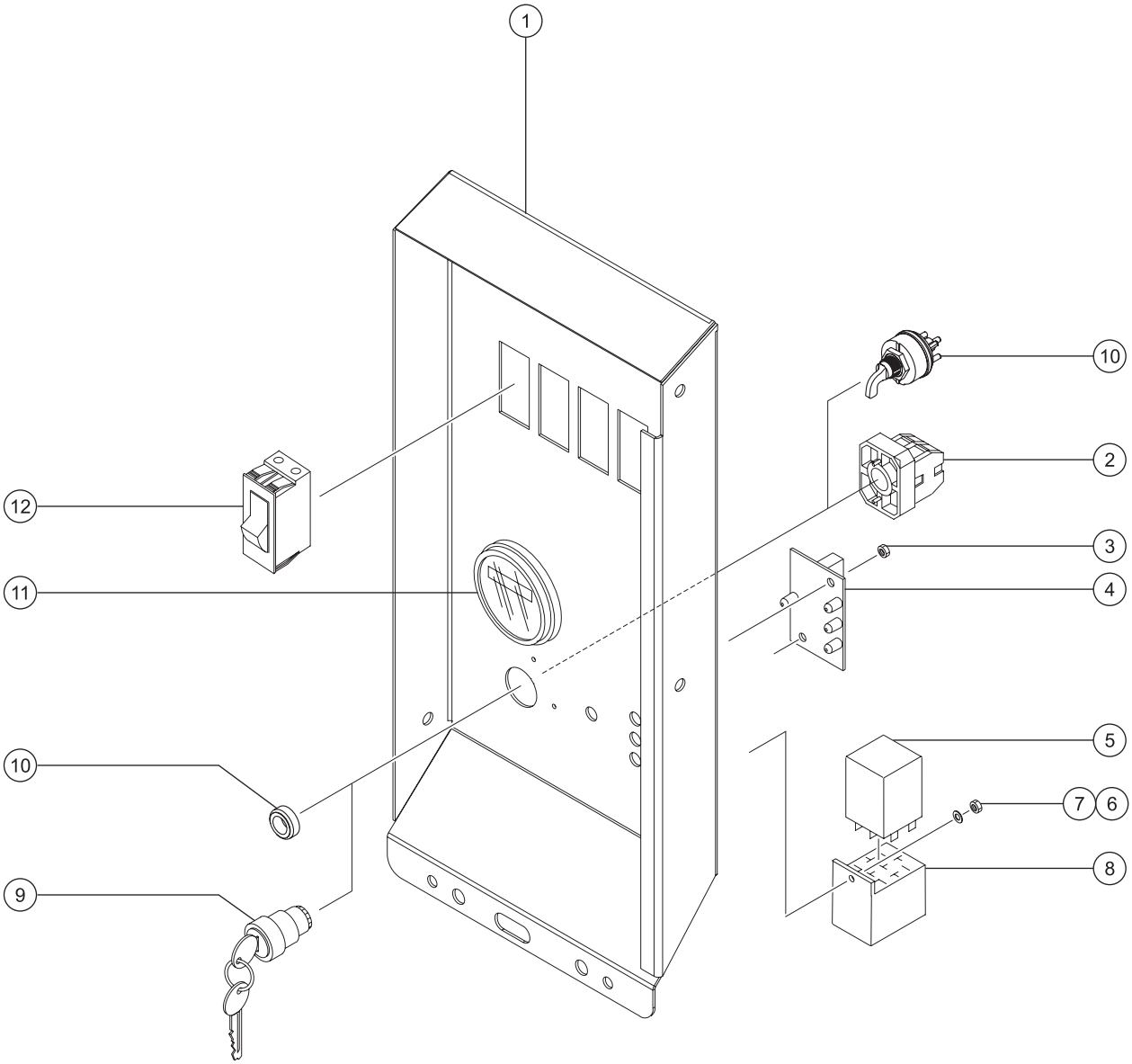
FIGURE 205.1

Item	Part No.	Description	Qty.
—	85275	Cold Start Accessory (includes heavy duty battery, battery tray and oil pan heater)	
1	57750	Fuel Tank, 50 gallons, TML-4000	1
1	80530	Fuel Tank, 30 gallons, TML-4000N	1
2	891520	Elbow, Fitting, 1/4 MNPT x 1/4 inch, 90°	1
3	116034	Hose End, Barbed, 3/16 inch	1
4	44909	Hose Clamp, 1/4 inch	6
5	30490	Fuel Hose, 1/4 inch	2 @13 inches
6	C90200200	Hose End, Barbed, 1/4 MNPT x 1/4 inch, 90°	1
7	35418	Hose, 3/16 inch	26.25 inches
8	69734	Fuel Shutoff Valve	1
9	101726	Gas Cap, Green	1
10	6888	Screw - HHC, 1/4 -20 x 1 inch, GR 5	
11	6091	Nylock Nut, 1/4 -20	
12	85271	Rear Cover with Decal, TML-4000	1
—	85272	Rear Cover with Decal, TML-4000N	
13	57587	Plastic Plug	1
14	6638	Flat Washer, 1/4 inch	
15	6356	Lock Washer, 1/4 inch	
16	25969	Spring Clip, 1/4 -20	
17	104776	Engine Tray	1
18	6175	Screw - HHC, 3/8 -16 x 1 inch, GR 5	
19	5397	Flat Washer, 5/16 inch	
20	15086	Fender Washer, 3/8 x 1.5 x 0.125 inch	
21	80333	Battery Tray (shown)	1
—	80035	Battery Tray (Heavy Duty Battery)	
22	6019	Screw - HHC, 3/8 -16 x 1.25 inches, GR 5	
23	4828	Nylock Nut, 3/8 -16	
24	6097	Flat Washer, 3/8 inch	
25	57600	J-bolt, 1/4 -20 x 9 inches	1
26	56050	Battery, 12V DC, 450 CCA	1
—	67325	Heavy Duty Battery, 12V DC, 1000 CCA	
27	57414	Battery Hold-down	1
28	8170	Wing Nut, 1/4 -20	
29	28853	Battery Blanket, 110V AC, 60HZ	1

Figure 206.1

REV A

Control Box



REV A

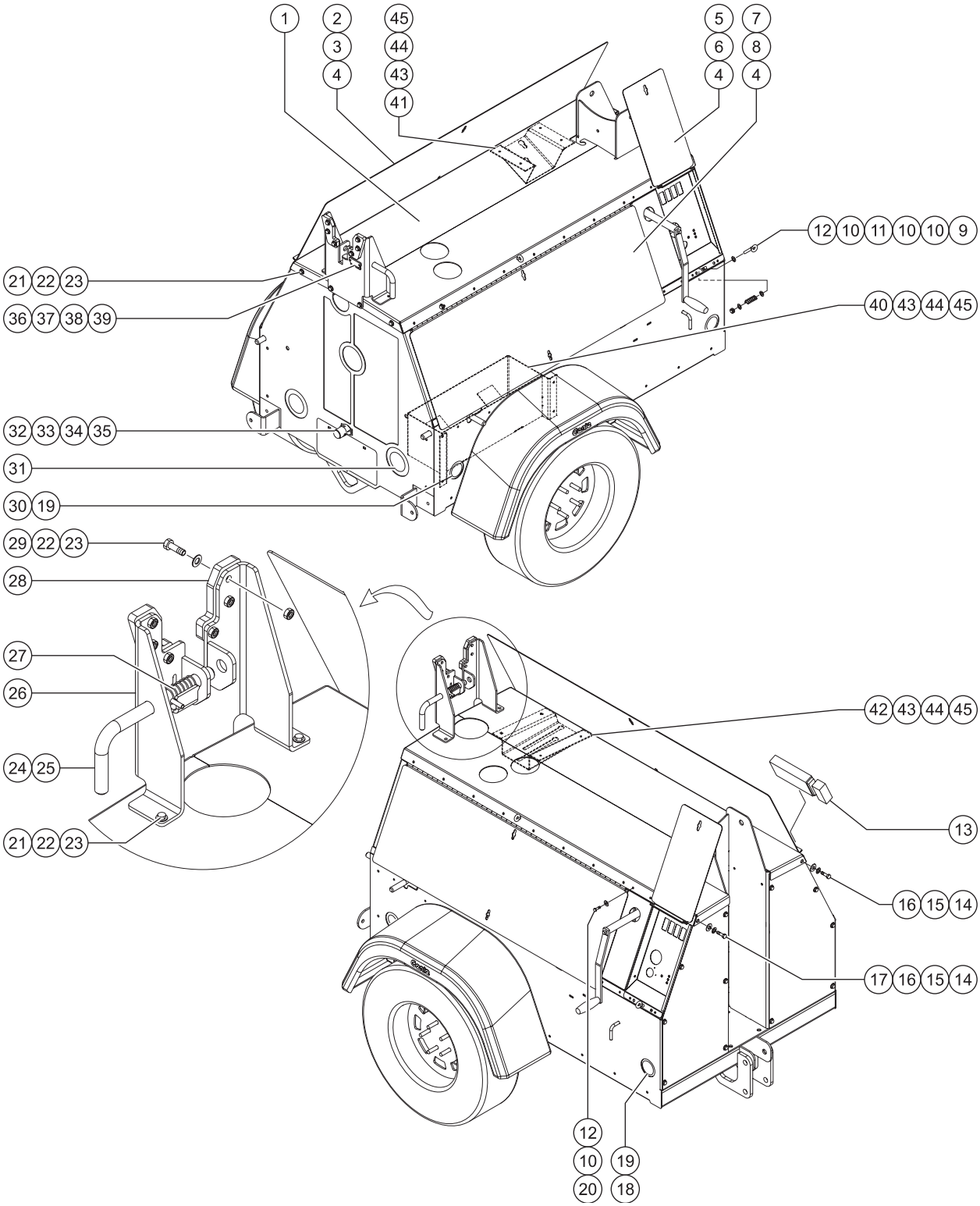
FIGURE 206.1

Item	Part No.	Description	Qty.
—	104851	Upgrade Kit, Shutdown Controller, Lombardini (includes item 4)	
—	61225	Relay, 12V DC	
—	61226	Relay, 12V DC	
—	81767	Terminal, AMP, 14-18 GA	
—	81766	Terminal, AMP, 10-12 GA	
—	104852	Instructions, Controller Update	
—	104854	Update Kit, Shutdown Controller Perkins (includes item 4)	
—	104853	Controller, Wire Assembly	
—	104852	Instructions, Controller Update	
1	85305	Ground Control Box Assembly with Decal	1
2	80303	Switch Base with Contacts	1
—	66816	N.O. Contact	
—	66818	N.C. Contact	
3	18605	Nylock Nut, 8-32	
4	80562	Glowplug - Shutdown Printed Circuit Board (Lombardini models) (Perkins models)	1
5	69831	Glow Plug Timer Relay (Lombardini models)	1
6	18542	Nut, 8-32, GR 2	
7	42421	Lock Washer, #8	
8	80040	Glow Plug Relay Connector Kit (Lombardini models)	1
—	69784	Female Terminal, Small	
—	69785	Female Terminal, Medium	
—	69786	Female Terminal, Large	
9	80302	Key Switch, 3 Position, Momentary	1
—	21982	Single Key	
—	37947	Key, Package of 10	
10	684380	Selector Switch, 3 Position, Momentary (keyless)	1
11	19506	Hour Meter, 10-80V DC	1
12	80533	Circuit Breaker, 10A	4

Figure 207.1

REV A

Covers



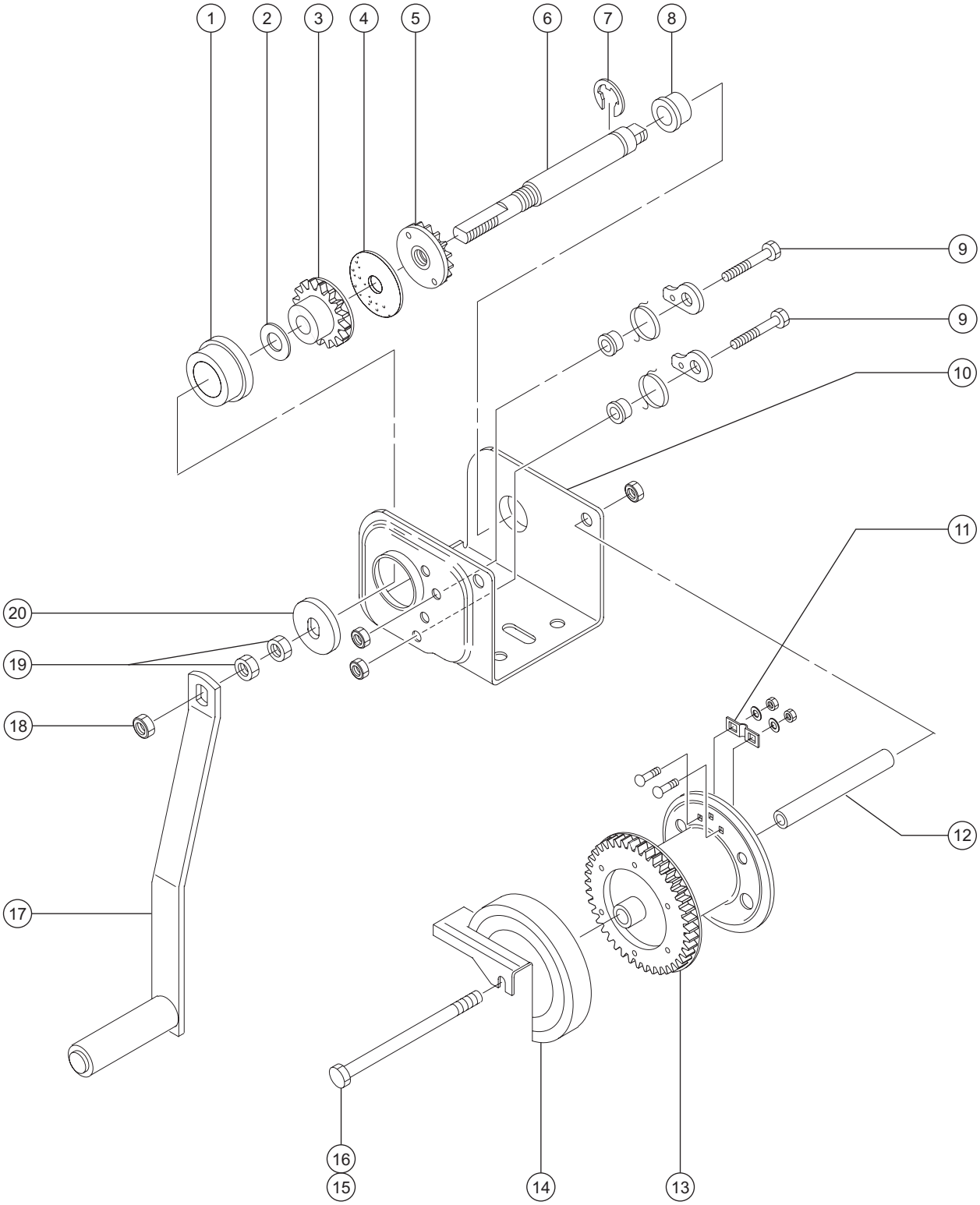
REV A FIGURE 207.1

Item	Part No.	Description	Qty.
1	85269	Top Cover Assembly with Decals, TML-4000	1
—	85268	Top Cover Assembly with Decals, TML-4000N	
2	85266	Main Cover Assembly with Decals, Tank Side, TML-4000	1
—	80108	Main Cover Assembly with Decals, Tank Side, TML-4000N	
3	69738	Hinge, Tank Side	1
4	7265	Steel Rivet, 1/4 x 0.375 inch	
5	80111	Controls Box Cover Assembly with Decals	1
6	69735	Controls Cover Hinge	1
7	85267	Main Cover Assembly with Decals, Controls Side, TML-4000	1
—	80109	Main Cover with Decals, Controls Side, TML-4000N	
8	57416	Hinge, Controls Side	1
9	69754	Eye Bolt, 5/16 -18 x 1 inch	5
10	6638	Flat Washer, 1/4 inch	
11	69824	Compression Spring, 0.38 x 0.5 inch	5
12	6002	Low Profile Nylock Nut, 5/16 -18	
13	40267	Manual Storage Container with Decal	1
—	2223	Lanyard Assembly	
14	6888	Screw - HHC, 1/4 -20 x 1 inch, GR 5	
15	6356	Lock Washer, 1/4 inch	
16	6638	Flat Washer, 1/4 inch	
17	6091	Nylock Nut, 1/4 -20	
18	80369	Side Marker Light, Amber	2
19	80370	Side Marker Grommet Kit	4
20	10107	Screw - HHC, 5/16 -18 x 0.75 inch, GR 5	
21	6019	Screw - HHC, 3/8 -16 x 1.25 inches, GR 5	
22	5397	Flat Washer, 5/16 inch	
23	4828	Nylock Nut, 3/8 -16	
24	69667	Lock Pin	1
25	69650	Roll Pin, 3/16 x 2 inches	
26	80274	Mast Cradle Assembly	1
27	69649	Compression Spring, 0.953 x 4.38 inches	1
28	69693	Mast Cradle Wear Pad	2
29	8516	Screw - HHC, 3/8 -16 x 1.5 inches, GR 5	
30	80368	Side Marker Light, Red	2
31	80371	Taillight Kit (includes retaining ring and wire connector)	2
32	57398	License Plate Light	1
33	6606	Screw - RHSM, 10-32 x 0.75 inch	
34	6607	Lock Washer, #10	
35	80366	Nylon Clip, 15 x 13 mm	
36	69648	Mast Hold-down Lock	1
37	5365	Nylock Nut, 10-24	
38	6146	Flat Washer, #10	
39	29752	Screw - HHC, 10-24 x 0.75 inch	
40	116002	Light Storage Tray	1
41	116001	Light Storage Bracket	1
42	116000	Light Storage Bracket	1
43	6888	Screw - HHC, 1/4 -20 x 1 inch, GR 5	
44	6638	Flat Washer, 1/4 inch	
45	6091	Nylock Nut, 1/4 -20	

Figure 208.1

REV A

Winch Components



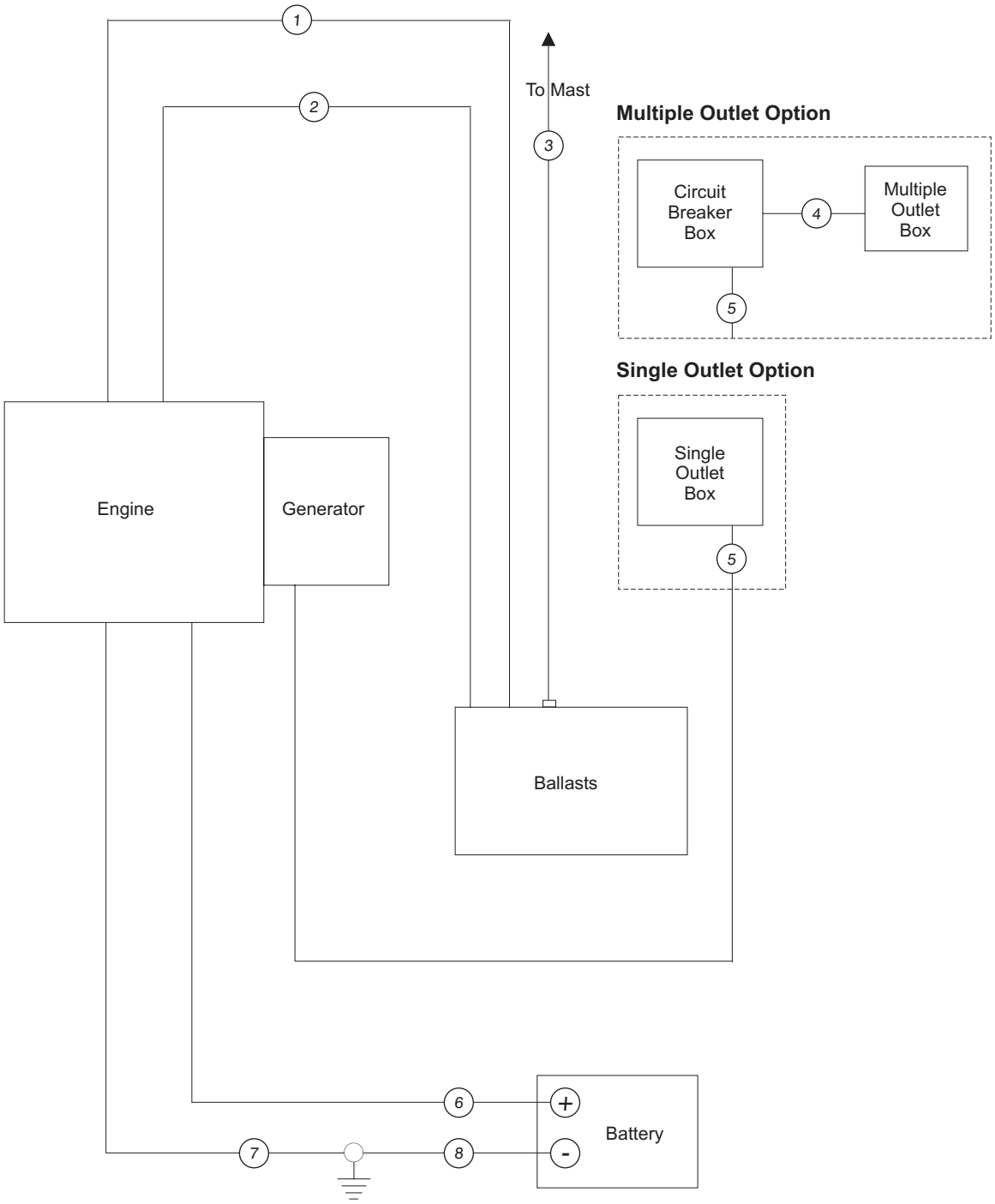
REV A FIGURE 208.1

Item	Part No.	Description	Qty.
—	14085	Winch Frame Assembly (does not include item 17)	
1	6204	Bushing	1
2	14190	Thrust Washer	1
3	14191	Ratchet Gear	1
4	5157	Friction Disc	1
5	14193	Pinion Gear	1
6	14194	Pinion Shaft	1
7	6200	Retaining Ring	1
8	6199	Bushing	1
9	5156	Ratchet Pawl Kit	2
10	Ref.	Winch Frame (not available separately)	
11	6190	Cable Keeper Kit	1
12	5320	Frame Spacer	1
13	Ref.	Cable Drum (not available separately)	
14	5376	Cable Drum Cover	1
15	12981	Screw - HHC, 3/8 -16 x 4.5 inches, GR 5	
16	12012	Nylock Nut, 3/8 -16	1
17	16342	Winch Handle, 11 inches	1
18	6086	Low Profile Nylock Nut, 1/2 -13	
19	6034	Jam Nut, 1/2 -13, GR 2	
20	14189	Pinion Plate	1

Figure 209.1

REV A

Power Cables, Lombardini and Deutz Models



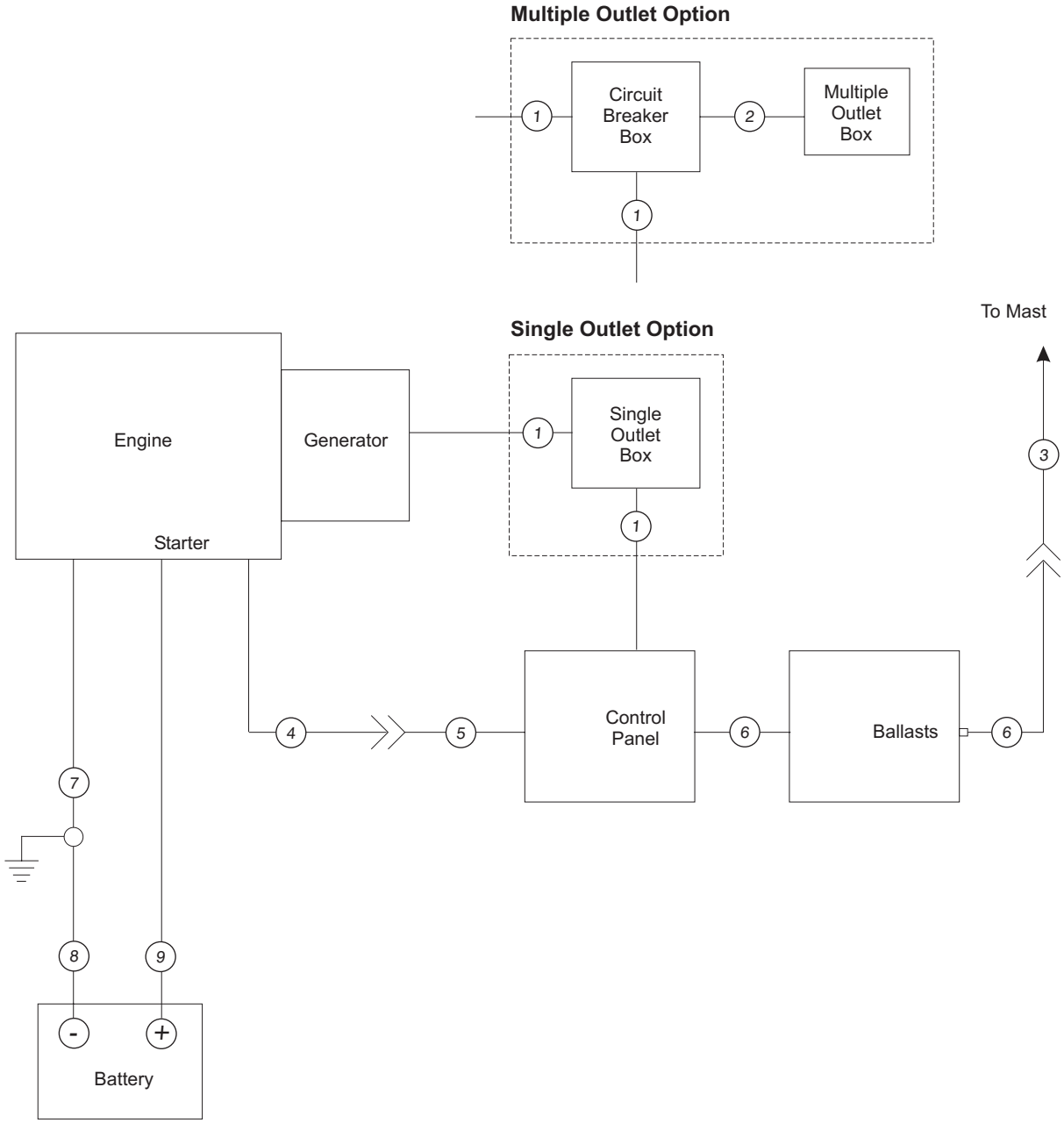
REV A FIGURE 209.1

Item	Part No.	Description	Qty.
—	104807	Wire Harness - Assembly, Ignition	
—	80559	Wire Harness, Running Lights D-Bar	
—	80560	Wire Harness Assembly, Running Lights, Right	
—	80561	Wire Harness Assembly, Running Lights, Left	
—	80191	Wire Harness Assembly, Jumper Fuel Cut Off Switch	
—	69797	Wire Harness, Ballast	
1	104963	Wire Harness Assembly, Lombardini or Deutz Starter Cable	1
2	104964	Wire Harness Assembly, Lombardini	1
3	57430	Wire Harness Assembly, 120V AC, Mast	1
4	43956	Electrical Cord, 14 Gauge, 3 Conductor	40 inches
5	80547	Generator Wire Harness, 240V, AC	
6	116037	Battery Cable Assembly, Red	1
7	116038	Battery Cable Assembly, Black	1
8	85258	Battery Cable Assembly, Black	1

Figure 210.1

REV A

Power Cables, Perkins Models



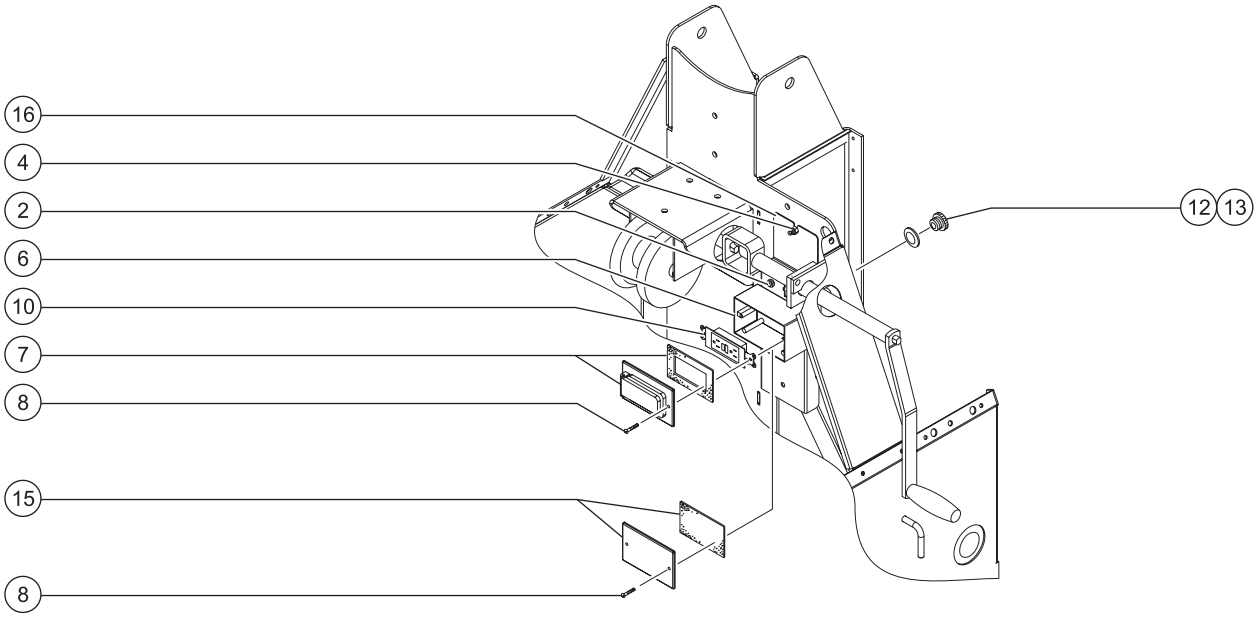
REV A FIGURE 210.1

Item	Part No.	Description	Qty.
—	80559	Wire Harness, Running Lights D-Bar	
—	80560	Wire Harness Assembly, Running Lights, Right	
—	80561	Wire Harness Assembly, Running Lights, Left	
—	80191	Wire Harness Assembly, Jumper Fuel Cut Off Switch	
—	69797	Wire Harness, Ballast	
1	80547	Generator Wire Harness, 240V	
2	80007	Electrical Cord, 12 Gauge, 4 Conductor	1
3	57430	Wire Harness Assembly, 120V AC, Mast	1
4	97459	Wire Harness Assembly	1
5	85203	Wire Harness Assembly	1
6	69797	Wire Harness Assembly (control panel to ballast)	
7	116038	Battery Cable Assembly, Black	1
8	85258	Battery Cable Assembly, Black	1
9	116037	Battery Cable Assembly, Red	1

Figure 211.1

REV A

Single Outlet Packages



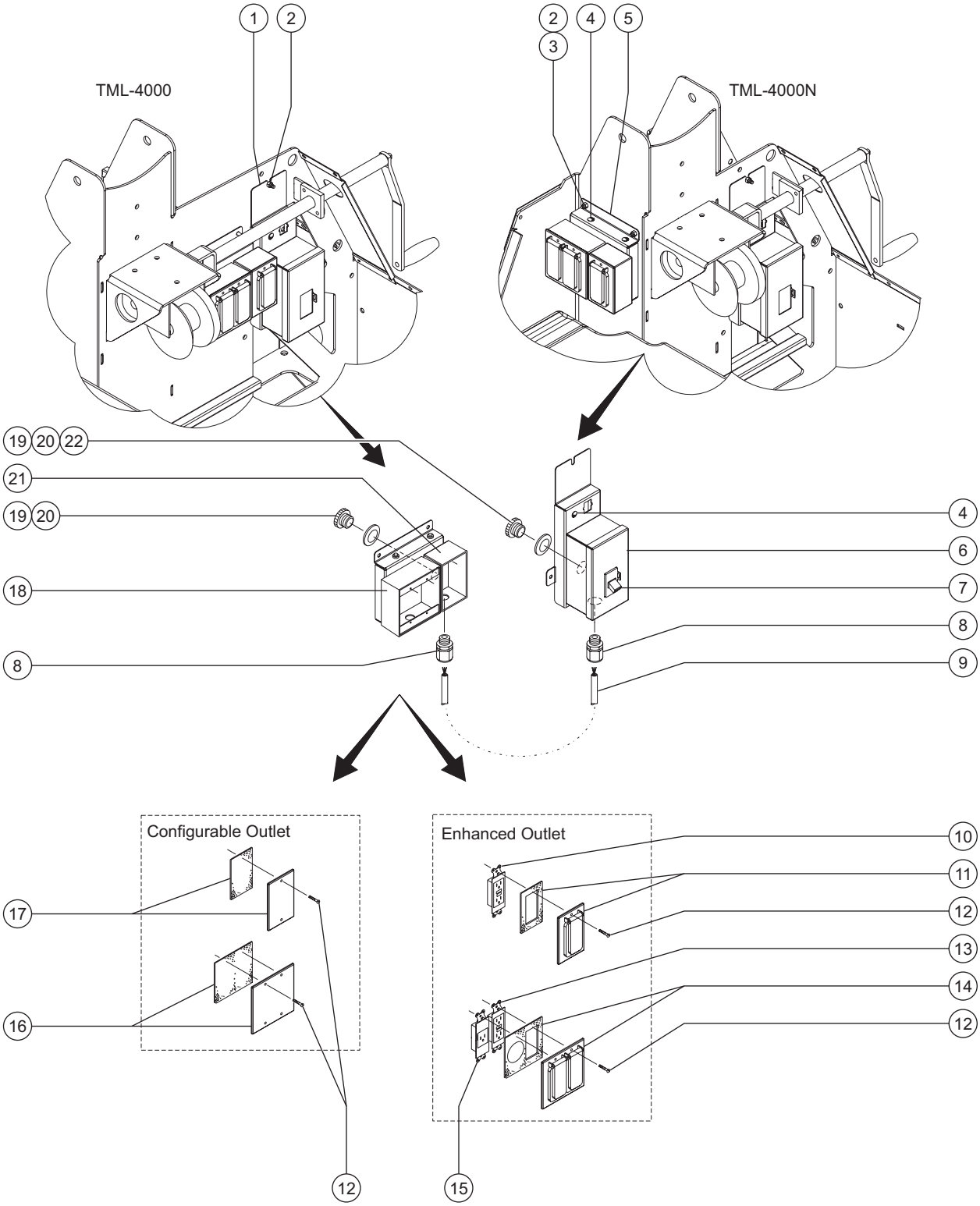
REV A FIGURE 211.1

Item	Part No.	Description	Qty.
1	24018	Circuit Breaker, 15A (includes mounting fasteners)	1
2	21858	Plastic Plug, 0.38 inch	1
3	69996	T-box Mount Bracket	1
4	6091	Nylock Nut, 1/4 -20	
5	42492	Plastic Plug, 1.032 inches	1
6	10775	T-box	1
7	45437	GFCI Weatherproof Cover (includes gasket and item 8)	1
8	49820	Screw - PHPM, 6-32 x 0.5 inch, GR 2	
9	69626	Screw - RHSM, 6-32 x 0.625 inch	
10	13585	GFCI Receptacle, 110V AC	1
11	6935	Locknut, 1/2 inch	
12	38709	Flat Washer, 0.938 x 1.375 x 0.05 inch	
13	12456	Nipple, 1/2 inch	
14	33576	Squeeze Connecter, 1/2 inch NPT	1
15	87795	Single Gange Outlet Cover (models with no receptacle option) (includes gasket and item 8)	1
16	80693	T-box Mount Bracket	1

Figure 212.1

REV A

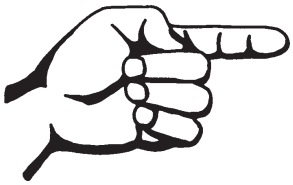
Duplex Outlet Packages



REV A

FIGURE 212.1

Item	Part No.	Description	Qty.
1	80693	T-box Mount Bracket	1
2	6091	Nylock Nut, 1/4 -20	
3	6090	Screw - HHC, 1/4 -20 x 0.75 inch, GR 5	
4	21858	Plastic Plug, 0.38 inch	3
5	69996	T-box Mount Bracket	1
6	80397	Circuit Breaker Box (includes cover and screw)	1
7	80396	Circuit Breaker, 25A	1
8	57451	Squeeze Connector, 1/2 inch NPT	2
9	85351	Wire Harness Assembly, Outlet to Control Panel	1
10	80543	GFCI Receptacle, 120V AC, 20A	1
11	45437	GFCI Weatherproof Cover (includes gasket and item 12)	1
12	49820	Screw - PHPM, 6-32 x 0.5 inch, GR 2	
13	80555	Receptacle, 120V AC, 20A	1
14	80357	GFCI Weatherproof Cover (includes gasket and item 12)	1
15	80556	Receptacle, 240V AC, 20A	1
16	57581	J-box Cover, 2 Gang (includes gasket and item 12)	1
17	10777	Blank Cover (includes gasket and item 12)	1
18	57535	Outlet Box, 2 Gang	2
19	12456	Nipple, 1/2 inch	3
20	38709	Flat Washer, 0.938 x 1.375 x 0.05 inch	
21	10775	T-box	1
22	6935	Locknut, 1/2 inch	



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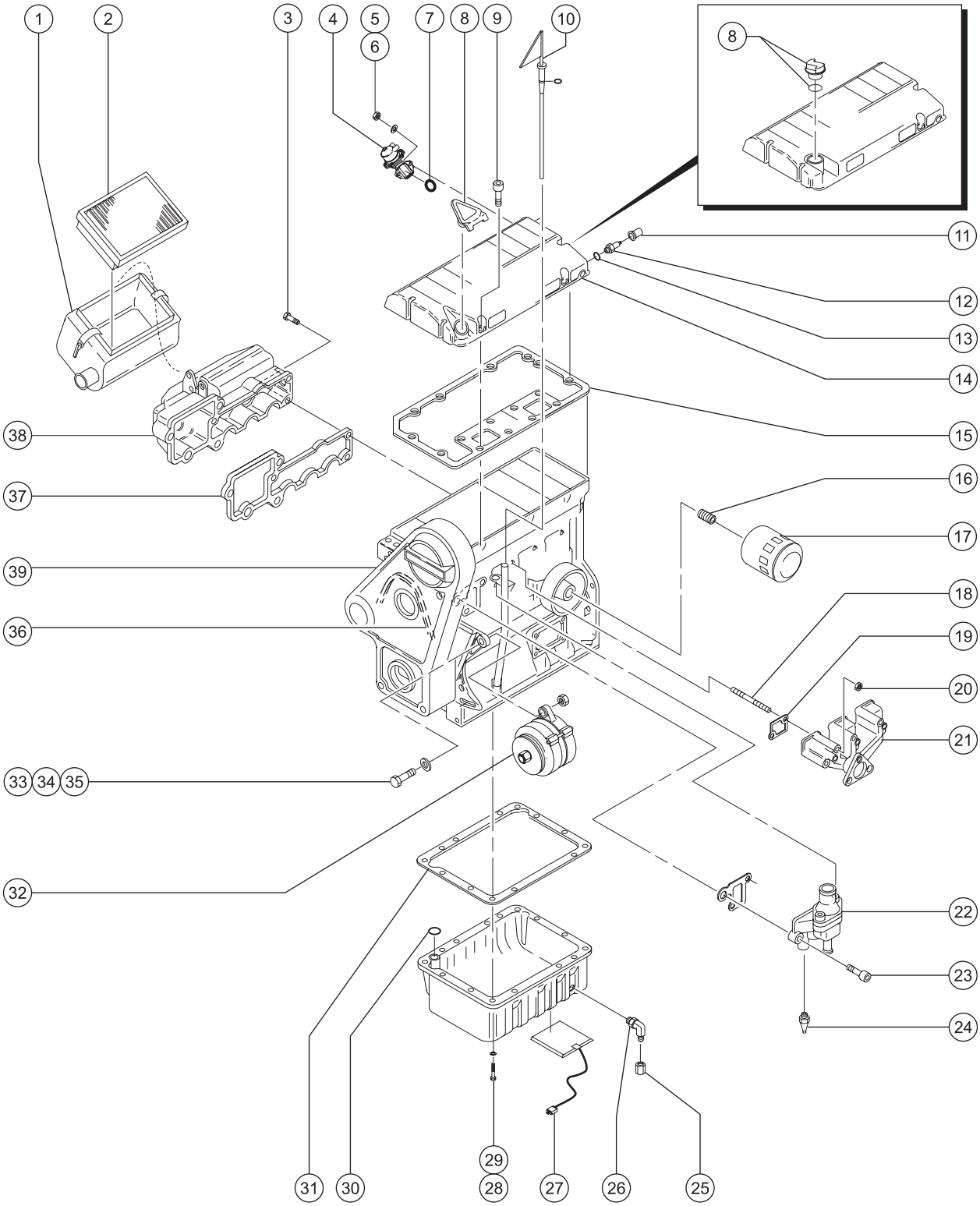
Section 300

Engine Components

Figure 301.1

Lombardini Engine, View 1

REV A



REV A

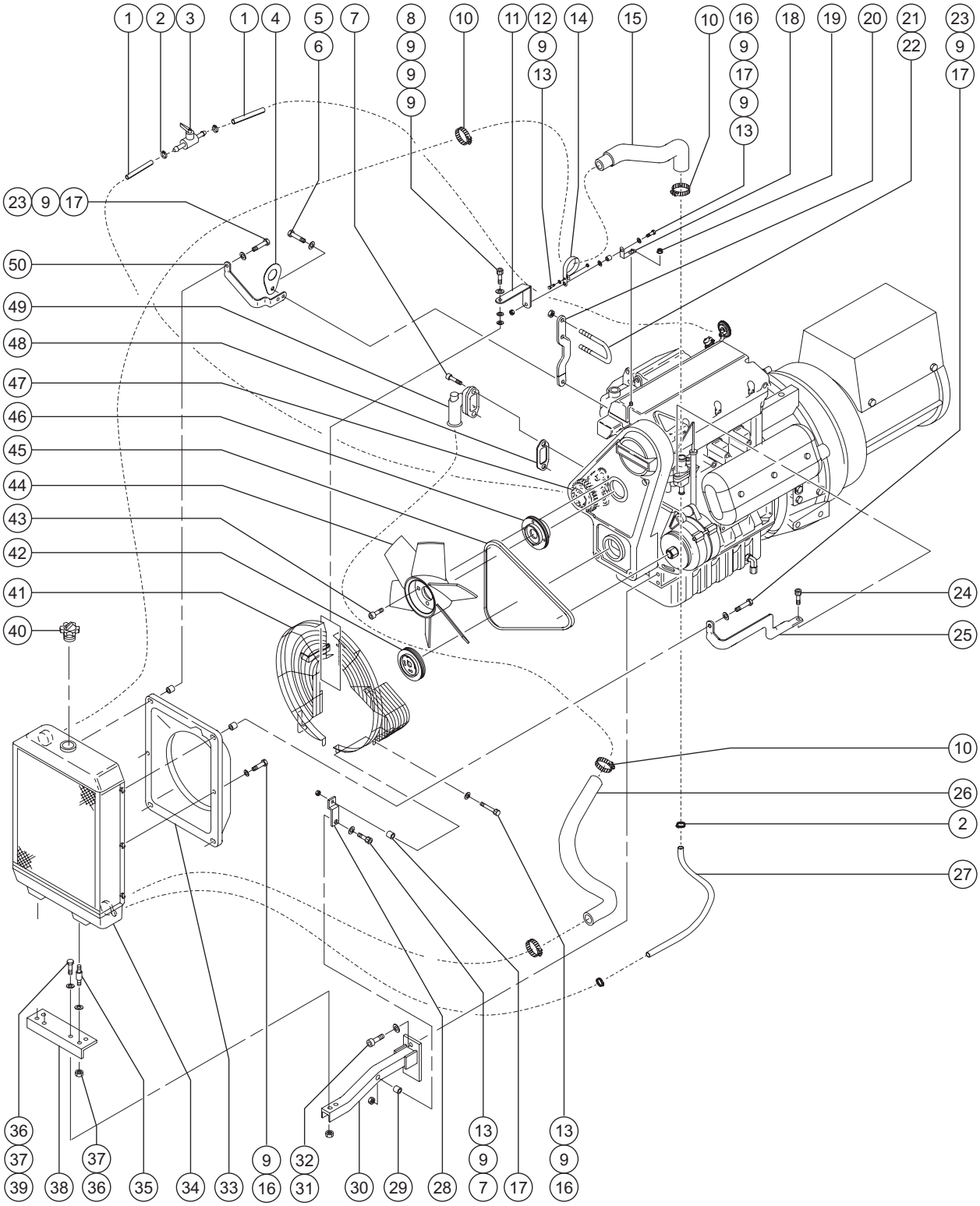
FIGURE 301.1

Item	Part No.	Description	Qty.
—	85008	Glow Plug	
—	116020	Lombardini LDW-1003/L Engine Complete	
—	97496	Cold Start - Accessory Kit (includes item 27)	
—	28853	Battery - Blanket	
—	29560	Fuel/Water Separator	
—	67325	Heavy Duty Battery	
—	80584	Wire Harness Assembly, Jumper	
1	80054	Air Cleaner Housing	1
2	80124	Air Cleaner Element	1
3	85047	Screw - SHC, M8 -1.25 x 65 mm, GR 12.9	6
4	80285	Fuel Pump	
5	85057	Hex Nut, M8	
6	75417	Flat Washer, M8	
7	85007	O-ring, Fuel Pump	1
8	85000	Oil Filler Cap - screw in	1
—	58496	Oil Filler Cap - thread in	1
—	58497	O-Ring for 58496	1
9	85049	Screw - SHC, M6 -1 x 20 mm, GR 12.9	12
10	97478	Engine Oil Dipstick	
11	85002	Rubber Cover, Oil Pressure Switch	1
12	80278	Oil Pressure Switch	1
13	85003	Rubber Seal, Oil Pressure Switch	1
14	85004	Valve Cover (includes item 8)	1
15	85005	Valve Cover Gasket	1
16	85067	Oil Filter Threaded Nipple	1
17	80053	Oil Filter	1
18	80121	Exhaust Manifold Stud, M8 x 1.25 x 45 mm	6
19	85046	Exhaust Manifold Gasket	6
20	85058	Nut, M8	
21	85050	Exhaust Manifold	1
22	85200	Thermostat Housing	1
—	97480	Thermostat	
—	85215	O-ring	
23	85051	Screw - SHC, M8 - 1.25 x 30 mm	
24	80279	Temperature Sensor	1
—	58311	Temperature Switch	
—	85216	Sealing Ring	
25	69775	Cap Fitting	1
26	69774	Fitting	1
27	80010	Oil Pan Heater	1
28	58052	Screw - HHC, M6 -1 x 12 mm, GR 8.8	
29	49407	Lock Washer, M6	
30	85009	O-ring, Dip Stick Tube	1
31	85010	Oil Pan Gasket	1
32	85011	Alternator, 12V DC, 45A	1
—	58295	Harness Wire, Alternator	
33	85053	Screw - HHC, M10 -1.5 x 70 mm, GR 8.8	
34	85054	Flat Washer, M10	
35	85055	Nut, M10	
36	80283	Timing Belt	1
37	85012	Intake Manifold Gasket	1
38	85056	Intake Manifold	1
39	97481	Timing Belt - Cover	1

Figure 302.1

Lombardini Engine, View 2

REV A



REV A

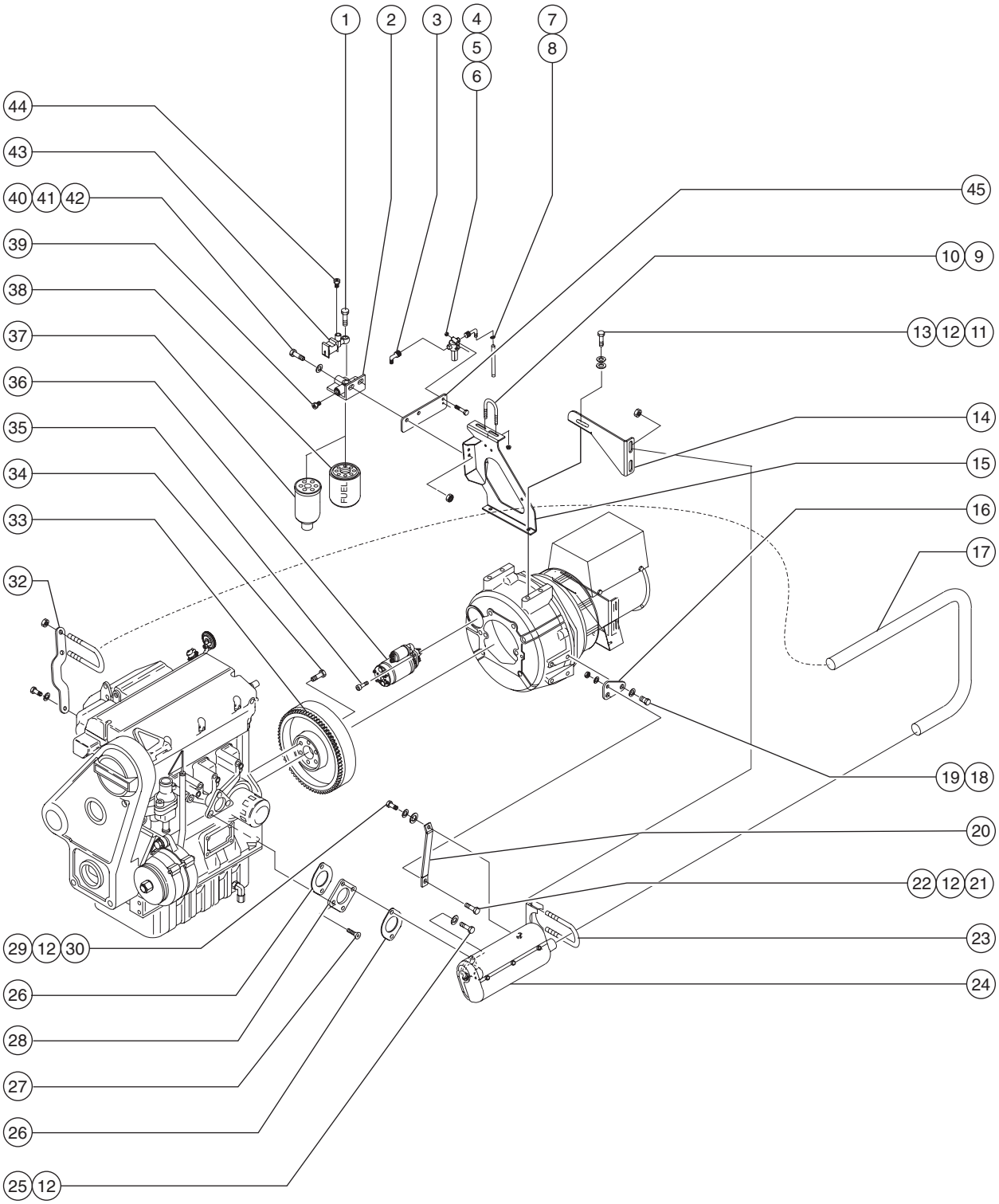
FIGURE 302.1

Item	Part No.	Description	Qty.
—	30490	Fuel Hose, 1/4 inch	
2	44909	Hose Clamp, 0.25 inch	4
3	69734	Fuel Shutoff Valve	1
4	85066	Lifting Lug	1
5	55098	Screw - HHC, M8 x 1.25 x 80 mm, GR 8.8	
6	49408	Lock Washer, M8	
7	85096	Screw - SHC, M6 x 1 x 35 mm, GR 12.9	3
8	85049	Screw - SHC, M6 -1 x 20 mm, GR 12.9	11
9	75382	Flat Washer, M6	
10	35434	Hose Clamp, 2 inches	4
11	85019	Radiator Guard Bracket	1
12	49375	Screw - HHC, M6 -1 x 16 mm, GR 8.8	
13	55017	Nut, M6	
14	85102	Upper Radiator Hose Clamp	1
15	85020	Upper Radiator Hose	1
16	85097	Screw - SHC, M6 x 1 x 10 mm, GR 12.9	3
17	85024	Radiator Guard Isolator	4
18	85028	Fan Guard Bracket	1
19	85098	Flange Nut, M6	1
20	80571	Exhaust Pipe Bracket	1
21	80391	U-bolt, 5/16 -18 x 2 inches	1
22	18503	Flange Nut, 5/16 -18	2
23	56123	Screw - HHC, M6 x 1 x 10 mm, GR 8.8	
24	85099	Screw - SHC, M8 x 1.25 x 20 mm, GR 12.9	1
25	85021	Radiator Shroud Bracket	1
26	85022	Lower Radiator Hose	1
27	85023	Temperature Sensor Hose	1
28	85025	Fan Guard Bracket	1
29	85062	Radiator Mount Spacer	1
30	85026	Radiator Mount Bracket, Side	2
31	85100	Screw - SHC, M12 x 1.75 x 16 mm, GR 12.9	2
32	49409	Lock Washer, M12	
33	85027	Radiator Shroud	1
34	69829	Radiator	1
35	85029	Radiator Isolator	2
36	25368	Nylock Nut, M8	
37	75417	Flat Washer, M8	
38	85030	Radiator Mount Bracket, Front	1
39	49378	Screw - HHC, M8 x 1.25 x 16 mm, GR 8.8	
40	85031	Radiator Cap	1
41	85032	Fan Guard, Assembly	1
42	85034	Crankshaft Pulley	1
43	85101	Screw - SHC, M6 x 1 x 65, GR 12.9	4
44	85045	Radiator Fan	1
45	80284	V-belt	1
46	85035	Fan Pulley	1
47	97477	Water Pump	1
—	85037	Water Pump Gasket	
—	85063	Screw - HHC, M8 x 1.25 x 35 mm	
—	85064	Screw - SHC, M8 x 1.25 x 16 mm	
48	85038	Water Inlet Housing Gasket	1
49	85039	Water Inlet Housing	1
50	85040	Fan Shroud Bracket	1

Figure 303.1

Lombardini Engine, View 3

REV A



REV A

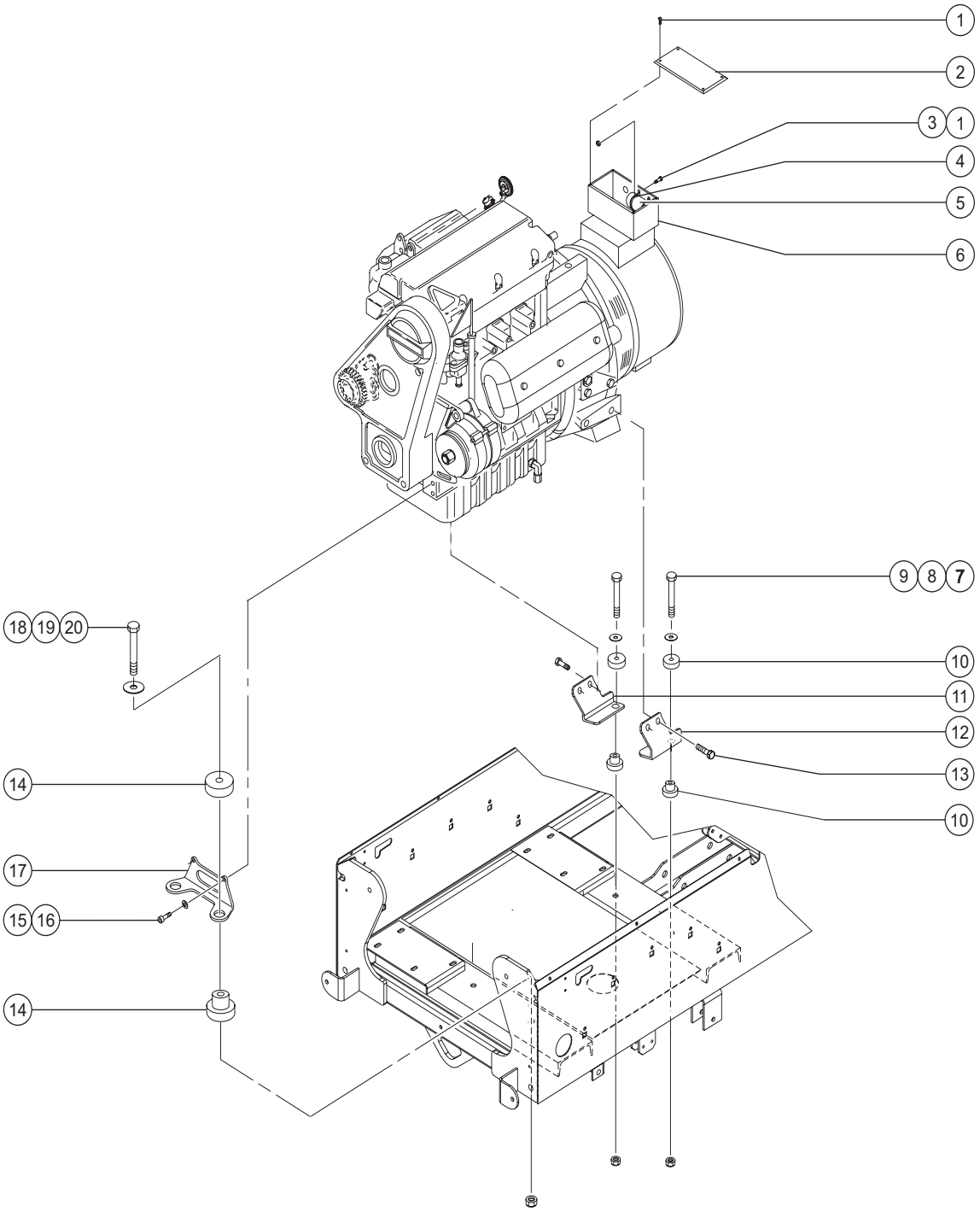
FIGURE 303.1

Item	Part No.	Description	Qty.
—	97497	Fuel/Water Separator, Accessory Kit (includes items 3, 5, 7,8, 37 and 45)	
—	80584	Wire Harness Assembly, Jumper	
—	27089	Fuel Hose, 5/16,	16 inches
1	85091	Hollow Screw - HHC, M10 x 1.5 x 30 mm	
—	85094	O-ring, Hollow Screw	
2	69825	Fuel Filter Assembly (includes item 38)	1
3	C90200200	Hose End, Barbed, 1/4 inch	
4	6091	Nylock Nut, 1/4 -20	1
5	104736	Fuel Strainer - 1/4 NPT, 250 micron	1
—	104737	Fuel Strainer Element	
6	4266	Screw, HHC, 1/4 -20 x 2 inches, GR 5	
7	44909	Hose Clamp, 1/4 inch	
8	30490	Fuel Hose, 1/4 inch 17 inch (option)	
9	80391	U-Bolt, 5/16 -18 x 2 inches	2
10	18503	Flange Nut, 5/16 -18	
11	22586	Screw - HHC, M8 -1.25 x 20 mm, GR 8.8	
12	49408	Lock Washer, M8	
13	6638	Flat Washer, 1/4 inch	
14	80567	Exhaust Support Bracket	1
15	80570	Fuel Filter Mount Bracket	1
16	80093	Exhaust Support Plate	1
17	80360	Exhaust Pipe	1
18	27585	Screw - HHC, M12 -1.75 x 20 mm, GR 8.8	2
19	49409	Lock Washer, M12	
20	80131	Exhaust Support Bracket	1
21	23057	Screw - HHC, M8 x 1.25 x 20 mm, GR 8.8	
22	22571	Nut, M8	
23	32064	Muffler Clamp, 1.75 inches	1
24	69828	Muffler	1
—	58306	Guard Plate (Heat Shield)	
25	49379	Screw - HHC, M8 x 1.25 x 25 mm, GR 8.8	
26	69830	Muffler Gasket	2
27	80358	Screw - FHS, M8 x 1.25 x 16 mm	2
28	80454	Muffler Adapter Plate	1
29	49378	Screw - HHC, M8 x 1.25 x 16mm	
30	44605	Flat Washer, M8	1
32	80571	Rear Exhaust Pipe Support	1
33	85013	Flywheel	1
34	85059	Screw - HHC, M10 x 1.5 x 35 mm	
35	61110	Screw - SHC, M10 -1.5 x 30 mm, GR 8.8	
36	85014	Starter, 12V DC, 45A	1
37	29560	Fuel/Water Separator	1
38	69826	Fuel Filter	1
39	35418	Hose, 3/16 inch	1
—	110002	Plug, M14 x 1.5 (TML-4000)	
40	6019	Screw - HHC, 3/8 -16 x 1.25 inches, GR 5	
41	5397	Flat Washer, 5/16 inch	
42	4828	Nylock Nut, 3/8 -16	
43	85016	Fuel Solenoid Valve	1
44	110003	Plug, M6 x 1.0 (TML-4000)	
—	30490	Hose - Fuel, 1/4 inch	
45	104675	Fuel Strainer Mounting Plate	1

Figure 304.1

Lombardini Engine with Marathon Generator

REV A



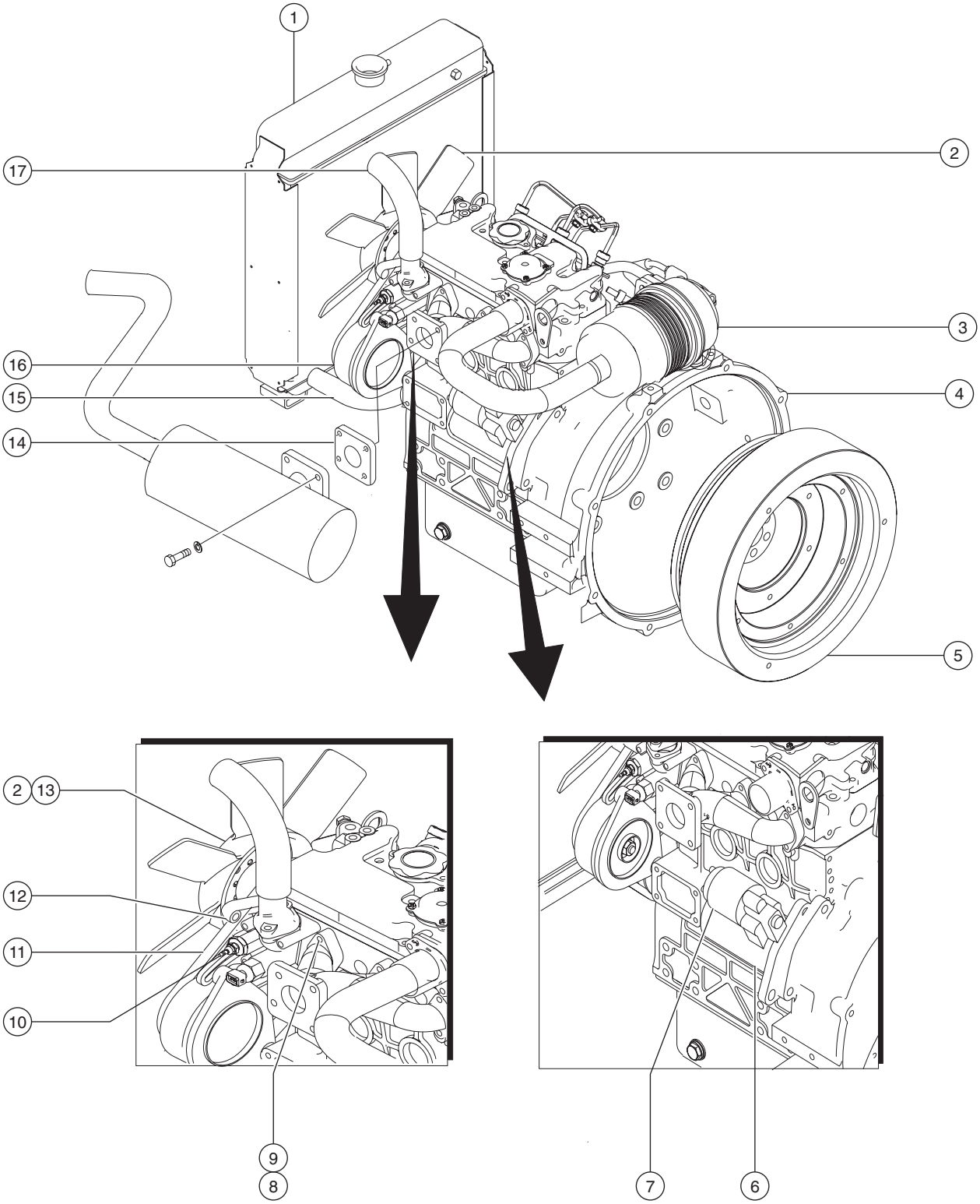
REV A FIGURE 304.1

Item	Part No.	Description	Qty.
—	85206	Marathon Generator Complete (includes items 1-6)	
1	78196	Screw - PHPH, 8-32 x 0.625 inch	
2	85209	Connection Box Cover	1
3	18605	Nylock Nut, 8-32	
4	21618	Capacitor Clamp	2
5	85207	Capacitor, 45MF, 450V AC, 60 HZ	1
—	116183	Capacitor, 25MF, 500V AC (used on all Marathon models 201CSA)	
6	85208	Connection Box	1
7	14033	Screw - HHC, 3/8 -16 x 2.75 inches, GR 5	
8	5397	Flat Washer, 5/16 inch	
9	4828	Nylock Nut, 3/8 -16	
10	80601	Vibration Isolator	2
11	80572	Rear Engine Mount Bracket, Right Side	1
12	80573	Rear Engine Mount Bracket, Left Side	1
13	27585	Screw - HHC, M12 x 1.75 x 20 mm	
14	740925	Vibration Isolator, Large	2
15	85093	Screw - SHC, M12 x 1.75 x 25 mm, GR 12.9	2
16	67722	Flat Washer, M12	
17	80330	Front Engine Mount Bracket	
18	6024	Nylock Nut, 5/8 -11	
19	6035	Flat Washer, 5/8 inch	
20	59746	Screw - HHC, 5/8 -11 x 4 inches, GR 5	

Figure 305.1

REV A

Perkins 403D-11G Engine, View 1



REV A

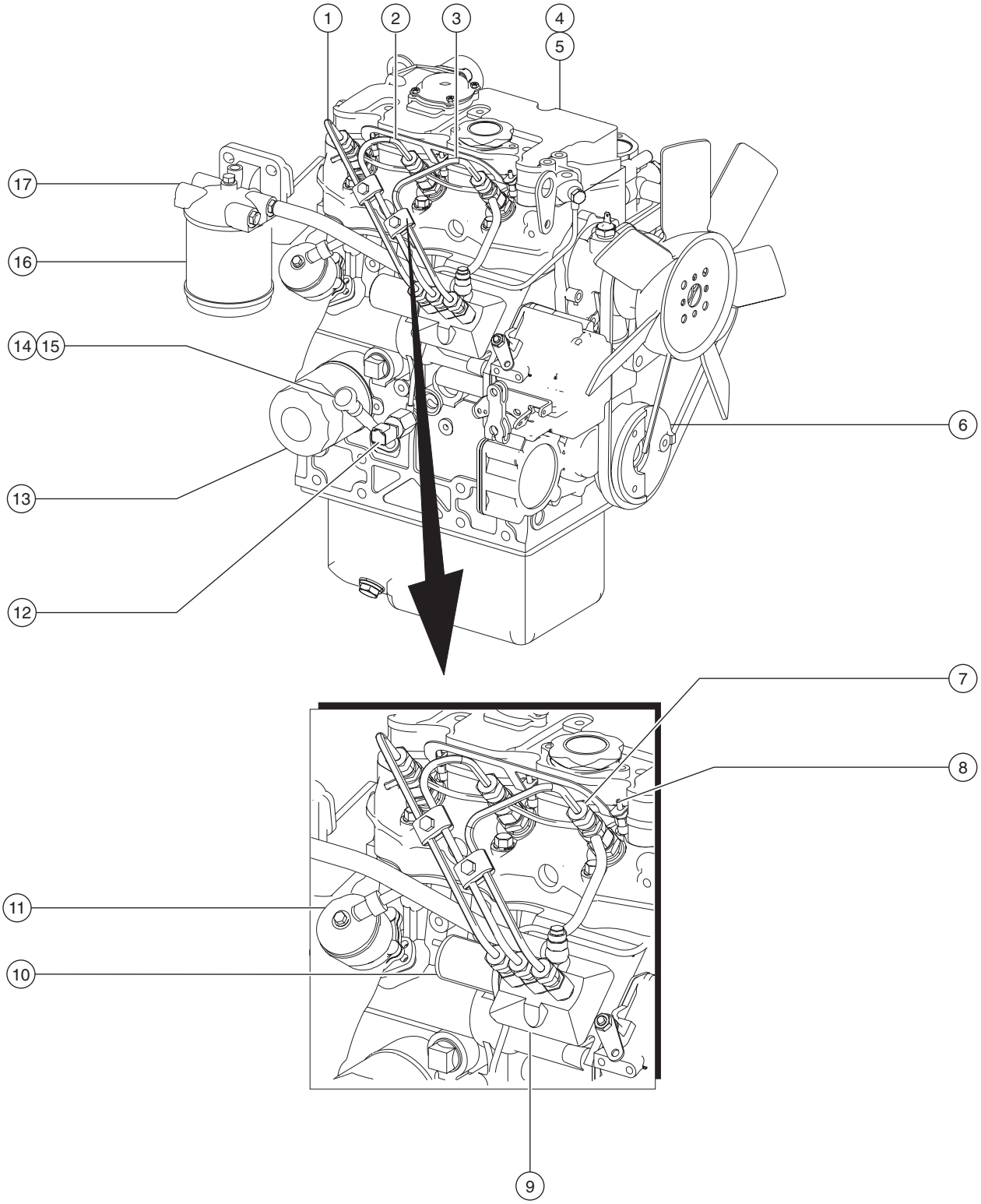
FIGURE 305.1

Item	Part No.	Description	Qty.
—	116508	Perkins 403D-11G Engine Complete, 60 HZ	
—	Ref.	PCB, Glow Plug - shutdown (refer to Figure 8-F)	
—	85155	Hand Primer	
—	84860	Valve Cover Breather	
1	58291	Radiator	1
2	97476	Fan	1
3	97407	Air Filter Assembly	1
—	97474	Element	
4	97426	Flywheel Housing	1
5	97425	Flywheel Assembly	1
—	97472	Gear Ring	
6	85103	Starter Motor	1
7	85122	Starter Motor Solenoid	1
8	97430	Exhaust Manifold	1
—	101326	Exhaust Studs	
—	101327	Exhaust Nuts	
9	85143	Exhaust Manifold Gasket	1
10	97473	Water Temperature Switch	1
11	85071	V - Belt	1
12	101322	Water Pump	1
—	97483	Water Pump Gasket	
13	101319	Fan Pulley	1
14	72343	Exhaust Flange Gasket	1
15	58292	Lower Radiator Hose	1
16	85089	Alternator - 12V DC, 15 Amp	
17	97428	Upper Radiator Hose	1

Figure 306.1

REV A

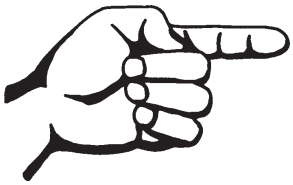
Perkins 403D-11G Engine, View 2



REV A

FIGURE 306.1

Item	Part No.	Description	Qty.
1	84812	Injector 1 Pipe	1
2	84813	Injector 2 Pipe	1
3	84814	Injector 3 Pipe	1
4	97405	Intake Manifold	1
5	97429	Gasket, Intake Manifold	1
6	97427	Crank Pulley	1
7	84811	Fuel Injector	3
8	84815	Glow Plug	3
9	97460	Fuel Injection Pump	1
10	97404	Shutdown Solenoid	1
11	72348	Fuel Lift Pump	1
12	101321	Oil Pressure Switch	1
13	94762	Oil Filter	1
14	101320	Dipstick	1
15	97461	Dipstick Tube	1
16	62421	Fuel Filter	1
17	94889	Fuel Filter Assembly (includes item 16)	1



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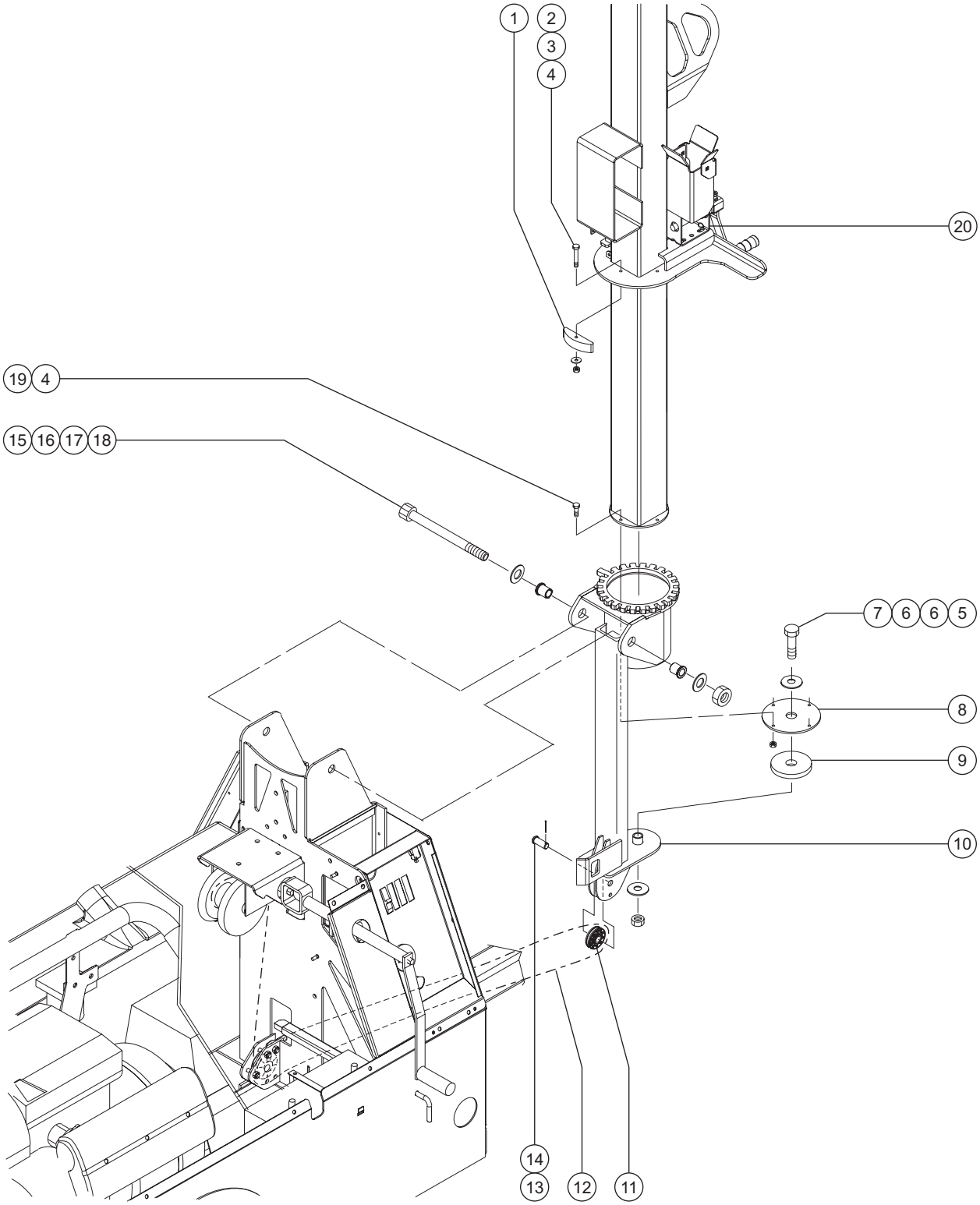
Section 400

Mast Components

Figure 401.1

REV A

Mast Components, View 1



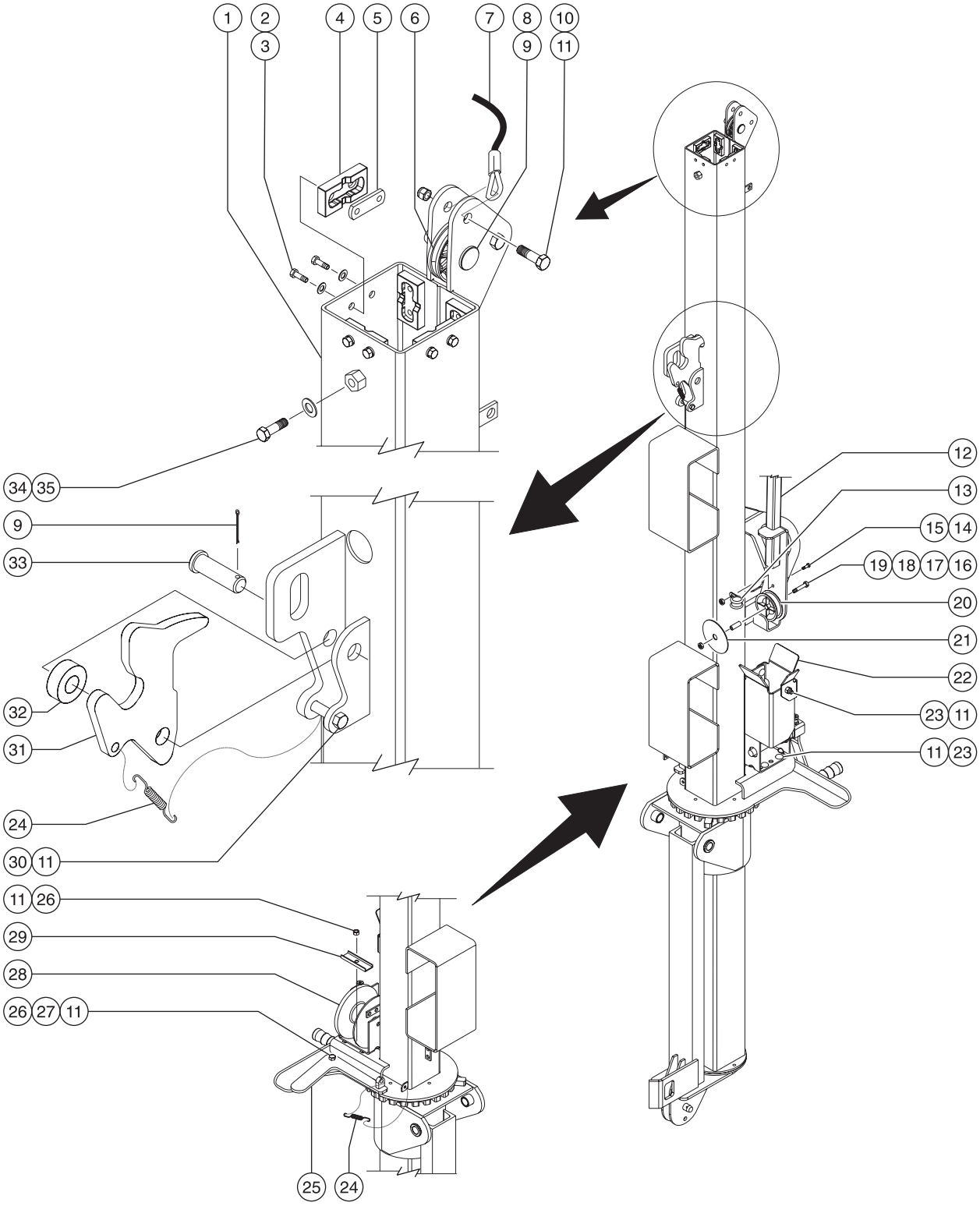
REV A FIGURE 401.1

Item	Part No.	Description	Qty.
1	69682	Mast Rotate Wear Pad	4
2	6637	Screw - HHC, 1/4 -20 x 1.75 inches, GR 5	
3	6638	Flat Washer, 1/4 inch	
4	6091	Nylock Nut, 1/4 -20	
5	51428	Screw - HHC, 3/4 -10 x 2.75 inches, GR 5	
6	6564	Shim Washer, 0.75 x 1.125 x 0.093 inch	
7	10258	Nylock Nut, 3/4 -10	
8	69684	End Cap Plate, Number 1, Mast Tube	1
9	69687	Wear Pad, Number 1, Mast Tube	1
10	69885	Pivot Assembly, Number 1, Mast Tube (includes item 15)	1
11	57316	Mast Cable Pulley	1
12	80107	Winch Cable Assembly, Mast Pivot	1
13	69680	Clevis Pin, 0.63 x 1.5 inches	1
14	6094	Cotter Pin, 0.125 x 1 inch	
15	57589	Screw - HHC, 3/4 -10 x 10 inches, GR 8	1
16	74323	Flat Washer, 3/4 inch	
17	42641	Flange Bearing, 0.75 x 1 x 1.25 inches	2
18	10258	Nylock Nut, 3/4 -10	
19	6090	Screw - HHC, 1/4 -20 x 0.75 inch, GR 5	
20	14085	Winch Frame Assembly	

Figure 402.1

REV A

Mast Components, View 2



REV A

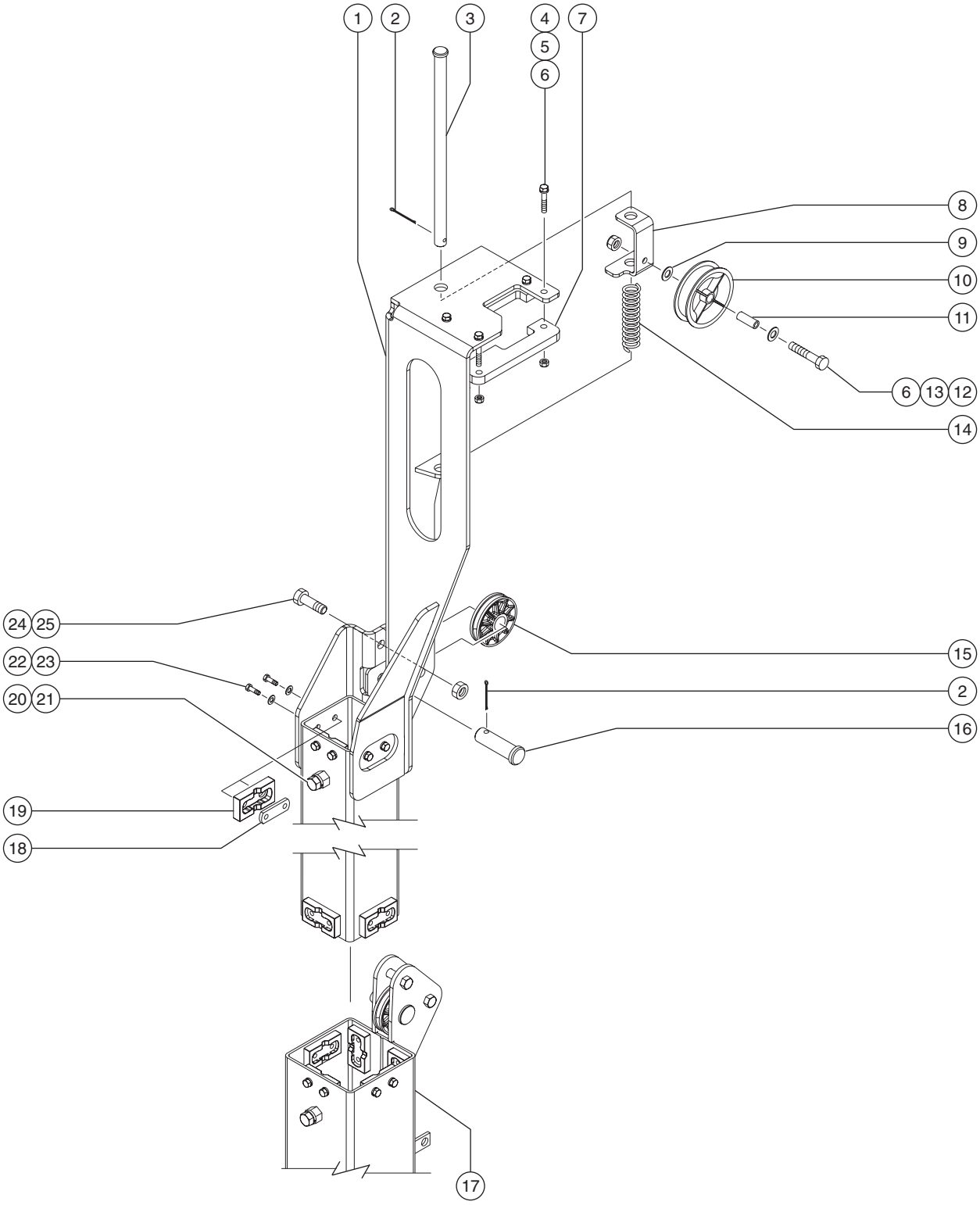
FIGURE 402.1

Item	Part No.	Description	Qty.
1	85273	TML4000, Number 1 Mast Tube Assembly with Decals	1
—	80117	TML4000N, Number 1 Mast Tube Assembly with Decals	
2	7339	Screw - HHC, 1/4 -20 x 0.5 inch, GR 5	
3	6356	Lock Washer, 1/4 inch	
4	80641	Wear Pad, 1.88 x 1 x 0.34 inch	5
5	80640	Weld Nut, 1/4 -20, 1 inch	5
6	57316	Mast Cable Pulley	
7	85260	Sequencing Cable Assembly	
8	69680	Clevis Pin, 0.63 x 1.5 inches	1
9	6094	Cotter Pin, 0.125 x 1 inch	2
10	13918	Screw - HHC, 3/8 -16 x 1.75 inches, GR 8	2
11	4828	Nylock Nut, 3/8 -16	
12	80118	Tilt Linkage Assembly with Decal	
13	6833	Rubber Cushioned Clamp, 0.5 inch	1
14	6090	Screw - HHC, 1/4 -20 x 0.75 inch, GR 5	
15	6091	Nylock Nut, 1/4 -20	
16	6145	Screw - HHC, 1/4 -20 x 1.5 inches, GR 5	
17	5397	Flat Washer, 5/16 inch	
18	40735	Aluminum Spacer, 1/4 x 0.375 x 0.875 inch	1
19	6889	Low Profile Nylock Nut, 1/4 -20	
20	23394	Control Cable Pulley	1
21	80324	Pulley Guard, Control Cable	1
22	97321	Tilt Linkage Guide Bracket Assembly with Decal	
23	64154	Carriage Bolt, 3/8 -16 x 1 inch, GR 5	
24	48075	Mast Rotate Handle Spring	2
25	69708	Mast Rotate Handle	1
26	6019	Screw - HHC, 3/8 -16 x 1.25 inches, GR 5	
27	11978	Nylon Flat Washer, 1/2 inch	
28	Ref.	Winch Housing (refer to Figure 8-H)	
29	Ref.	Winch Reinforcement Plate (refer to Figure 8-H)	1
30	5224	Screw - HHC, 3/8 -16 x 2 inches, GR 5	
31	69658	Extension Stop Plate	1
32	69657	Extension Stop Wear Pad	1
33	61295	Clevis Pin, 0.625 x 2 inches	1
34	8255	Screw - HHC, 3/8 -16 x 0.75 inch, GR 5	
35	6021	Lock Washer, 3/8 inch	

Figure 403.1

REV A

Mast Components, View 3



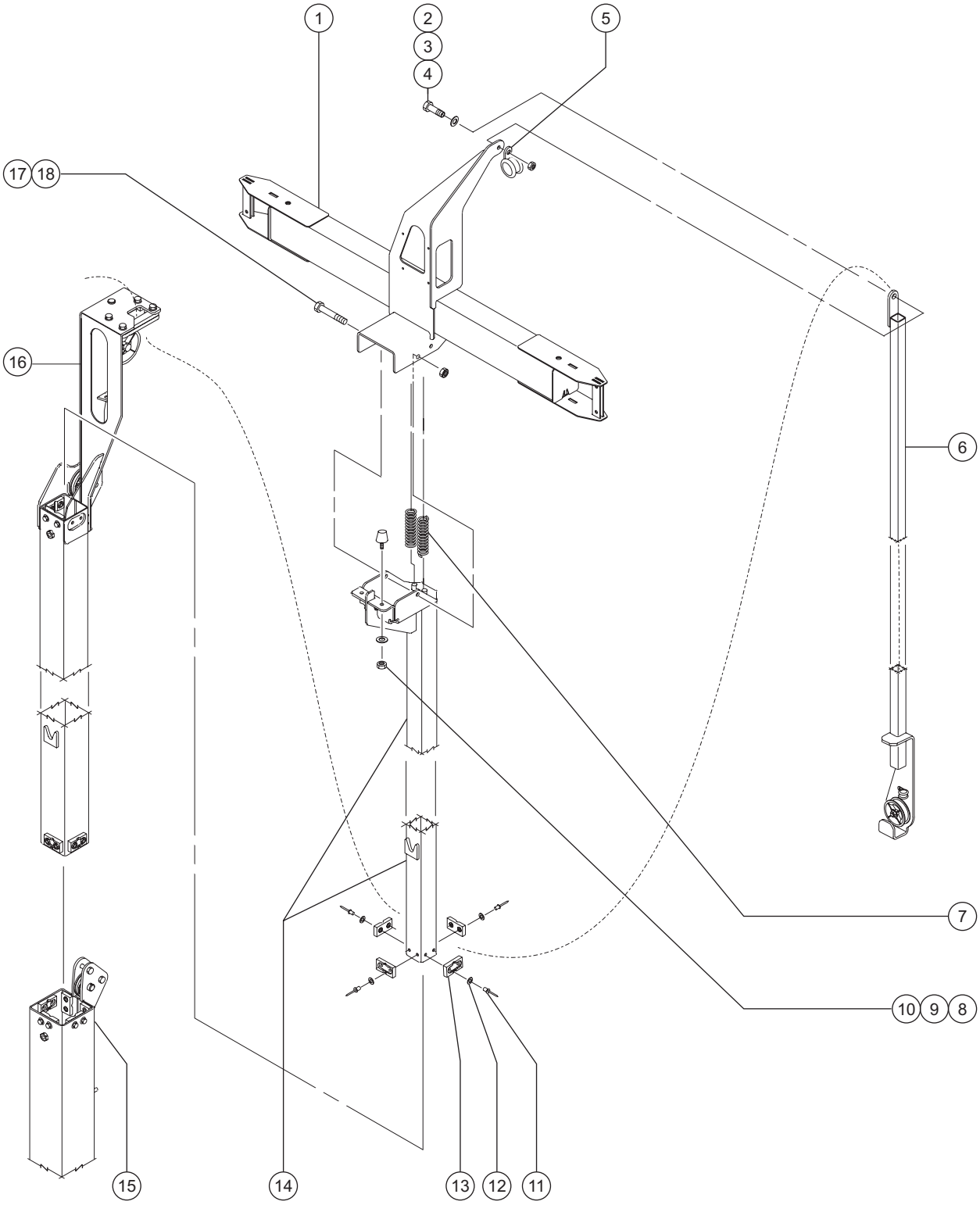
REV A FIGURE 403.1

Item	Part No.	Description	Qty.
1	85277	Number 2 Mast Tube Assembly	
2	6094	Cotter Pin, 0.125 x 1 inch	
3	43391	Clevis Pin, 0.5 x 9.75 inches	1
4	6888	Screw - HHC, 1/4 -20 x 1 inch, GR 5	
5	6638	Flat Washer, 1/4 inch	
6	6091	Nylock Nut, 1/4 -20	
7	69699	Actuator Stop Guide Pad	2
8	69664	Pulley Mount Bracket	1
9	25926	Flat Washer, M6	
10	23394	Control Cable Pulley	
11	40735	Aluminum Spacer, 1/4 x 0.375 x 0.875 inch	1
12	6145	Screw - HHC, 1/4 -20 x 1.5 inches, GR 5	
13	5397	Flat Washer, 5/16 inch	
14	69638	Control Cable Pulley Spring	1
15	57316	Mast Cable Pulley	
16	69680	Clevis Pin, 0.625 x 1.5 inches	1
17	Ref.	Number 1 Mast Tube Assembly (refer to Figure 10-B.1)	
18	80640	Weld Nut, 1/4 -20, 1 inch	
19	80641	Wear Pad, 1.88 x 1 x 0.34 inch (after serial number TML02-564)	1
20	8255	Screw - HHC, 3/8 -16 x 0.75 inch, GR 5	
21	6021	Lock Washer, 3/8 inch	
22	7339	Screw - HHC, 1/4 -20 x 0.5 inch, GR 5	
23	6356	Lock Washer, 1/4 inch	
24	13918	Screw - HHC, 3/8 -16 x 1.75 inches, GR 8	2
25	4828	Nylock Nut, 3/8 -16	

Figure 404.1

REV A

Mast Components, View 4



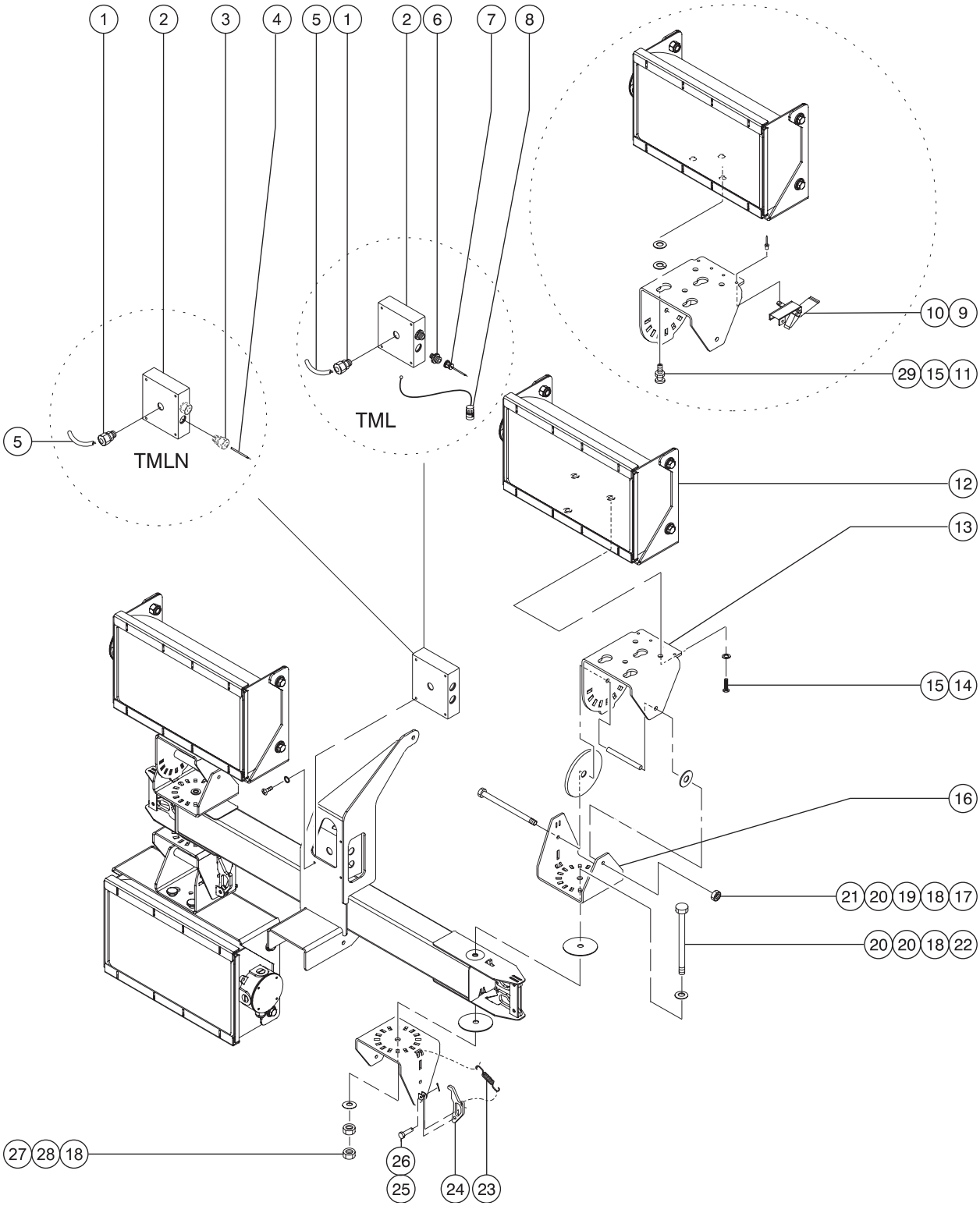
REV A FIGURE 404.1

Item	Part No.	Description	Qty.
1	80200	Light Mount	1
2	11335	Screw - SHS, 3/8 -16 x 0.5 inch	
3	11978	Nylon Flat Washer, 0.515 x 0.88 x 0.093 inch	
4	7713	Low Profile Nylock Nut, 3/8 -16 inch	
5	104685	Rubber Cushioned Clamp, 0.56 x 1/2 inch	1
6	80118	Tilt Linkage Assembly	
7	57352	Light Mount Spring	2
8	6002	Low Profile Nylock Nut, 5/16 -18	
9	6638	Flat Washer, 1/4 inch	
10	30973	Rubber Bumper, 1 x 1.25 inches	2
11	7265	Steel Rivet	
12	33277	Flat Washer, M8	
13	80641	Wear Pad	
14	85286	Number 3 Mast Tube Assembly (includes items 11-13)	1
15	Ref.	Number 1 Mast Tube Assembly (refer to Figure 10-B.1)	
16	85277	Number 2 Mast Tube Assembly	
17	22832	Screw - HHC, 3/8 -16 x 6 inches, GR 5	
18	4828	Nylock Nut, 3/8 -16	

Figure 405.1

REV A

Lightbar Installation



REV A

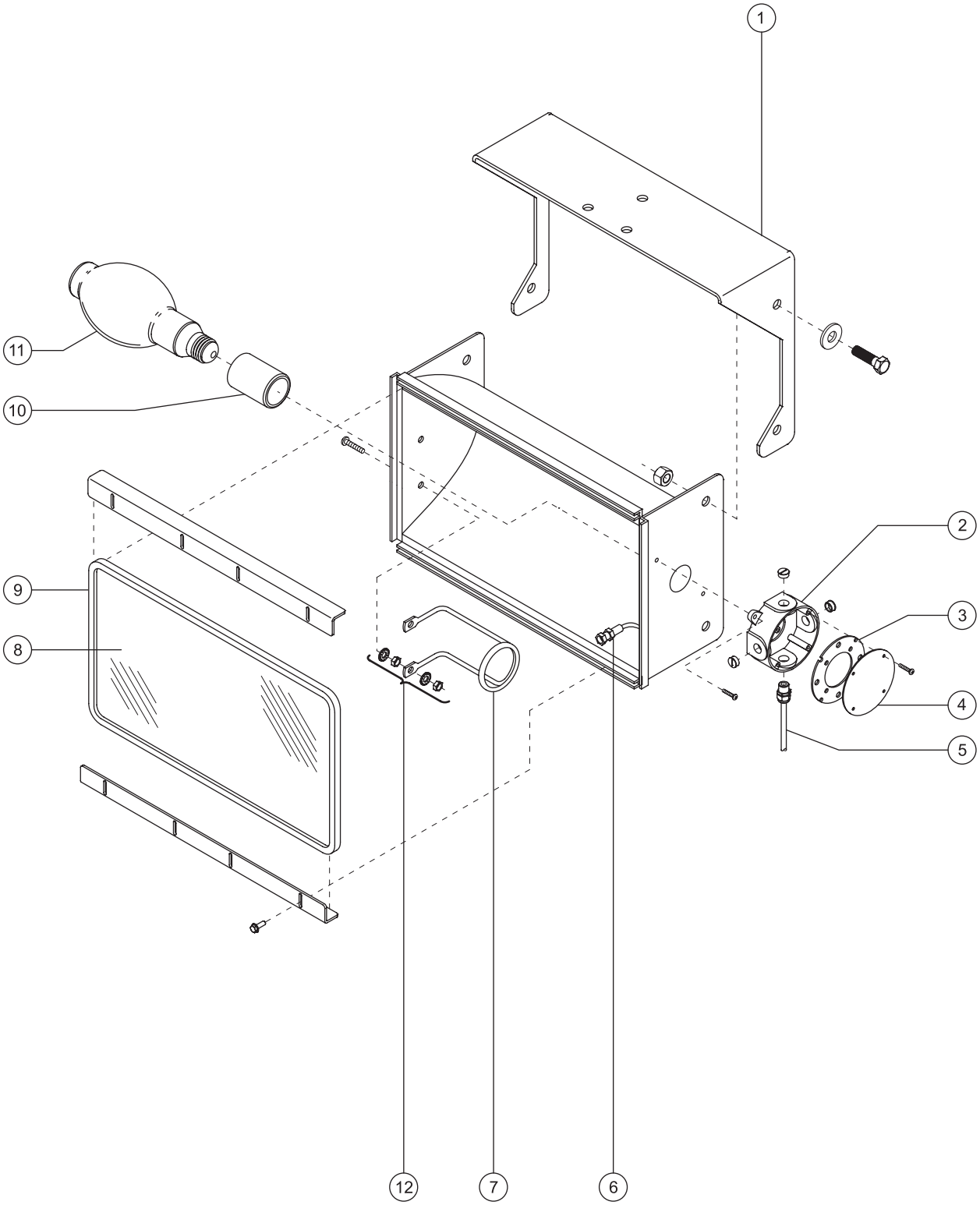
FIGURE 405.1

Item	Part No.	Description	Qty.
1	57451	Squeeze Connector, 1/2 inch NPT	1
2	57535	T-box	1
—	57581	Cover, T-box	
3	33576	Squeeze Connector, 1/2 inch NPT	4
4	57582	Electrical Cord, 16 Gauge, 7 conductor	44 inches
5	57582	Electrical Cord, 16 Gauge, 7 conductor	684 inches
6	80475	Male Connector	4
7	85278	Light Cable Assembly	4
8	80478	Receptacle Cap Assembly	4
9	80445	Draw Latch, Spring Loaded, TML-4000	8
10	33776	Steel Rivet, 0.19 x 0.375 inch	16
11	80441	Light Mount Standoff, TML-4000	12
12	112290	Light Assembly (refer to Figure 10-F.2)	
13	80409	Light Bracket, Vertical Adjustment	4
14	8255	Screw - HHC, 3/8 -16 x 0.75 inch, GR 5	
15	6021	Lock Washer, 3/8 inch	
16	80411	Light Bracket, Horizontal Adjustment	4
17	6002	Low Profile Nylock Nut, 5/16 -18	
18	11978	Nylon Flat Washer, 1/2 inch	
19	80466	Light Mount Bracket Spacer, 0.5 x 0.75 x 5.06 inches	4
20	69766	Plastic Spacer, 0.56 x 3 inches	4
21	80448	Screw - HHC, 5/16 -18 x 6.5 inches, GR 5	
22	13005	Screw - HHC, 1/2 -13 x 6 inches, GR 8	2
23	48075	Compression Spring	8
24	69207	Light Rotation Lock Plate	8
25	59972	Clevis Pin, 0.313 x 0.75 inch	8
26	80336	Cotter Pin, 0.313 x 0.047 inch	
27	6086	Low Profile Nylock Nut, 1/2 -13	
28	6034	Jam Nut, 1/2 -13, GR 2	
29	6097	Flat Washer, 3/8 inch (after TML 06-000708)	

Figure 406.1

REV A

Light Housing Assembly (Spero Electric)



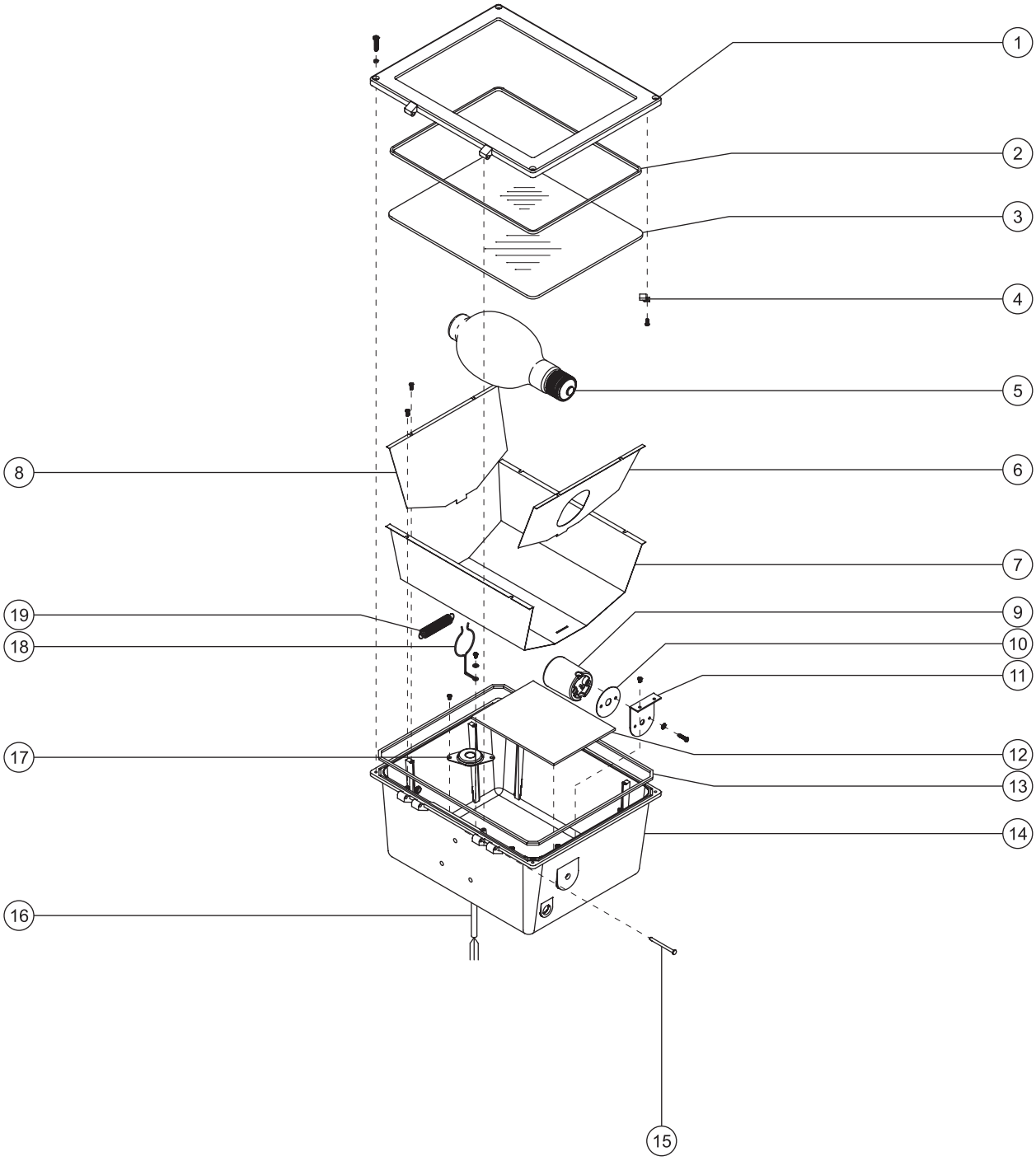
REV A FIGURE 406.1

Item	Part No.	Description	Qty.
—	112290	Light Fixture	
1	112282	Yoke, Light Fixture	1
2	116019	Junction Box	1
3	116017	Gasket, Junction Box	1
4	116018	Cover, Junction Box	1
5	116014	Cordset (TML-4000)	1
—	116013	Cordset (TML-4000N)	1
6	116012	Cable Assembly	1
7	116009	Lamp Support	1
8	116010	Glass Lens	1
9	116008	Light Fixture Lens Gasket	1
10	116011	Lamp Socket	1
11	80101	Lamp, 1000MH, BH37	1
12	58493	Lamp Support Hardware Kit	1

Figure 406.2

REV A

Light Housing Assembly (Eagle Lighting)



REV A

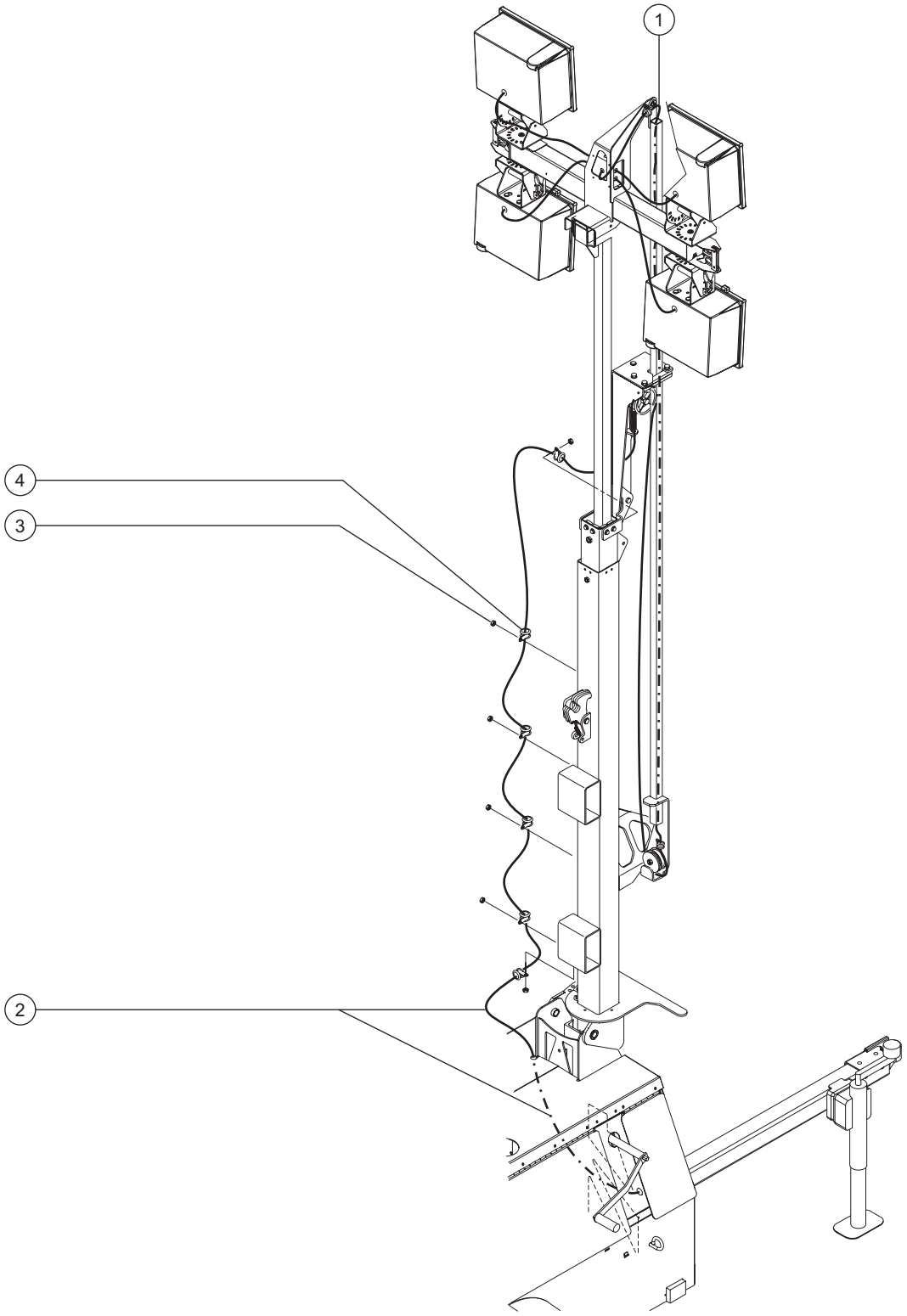
FIGURE 406.2

Item	Part No.	Description	Qty.
—	161090	Light Fixture	
1	116054	Top Frame, Housing Base	1
2	116049	Gasket, Rectangular Glass Lens	1
3	116048	Glass Lens, Rectangular	1
4	116051	Retainer Clip, Glass Lens	8
	116052	Retainer Clip, Glass Lens, Cover	8
5	80101	Lamp, 1000 Watt, Metal Halide	1
6	116047	Reflector, Lamp Side	1
7	116045	Reflector Base	1
8	116046	Reflector Side	1
9	116057	Light Socket	1
10	116056	Gasket, Light Socket	1
11	116044	Bracket, Socket Mount	1
12	116059	Fiberglass Pad, Rectangular Lamp Fixture	1
13	116053	Gasket, Housing Base, Top Frame	1
14	116042	Fixture Housing Base, 1KW Rectangular	1
15	116043	Clevis Pin, 4.6 X 60 mm	2
16	116113	Cord, 16/3 STW 60"	1
17	116109	Grommet Assembly	2
18	116058	Lamp Clip, PSI Rectangular Housing	2
19	116061	Spring, Lamp Retainer	2

Figure 407.1

REV A

Power Cable Routing



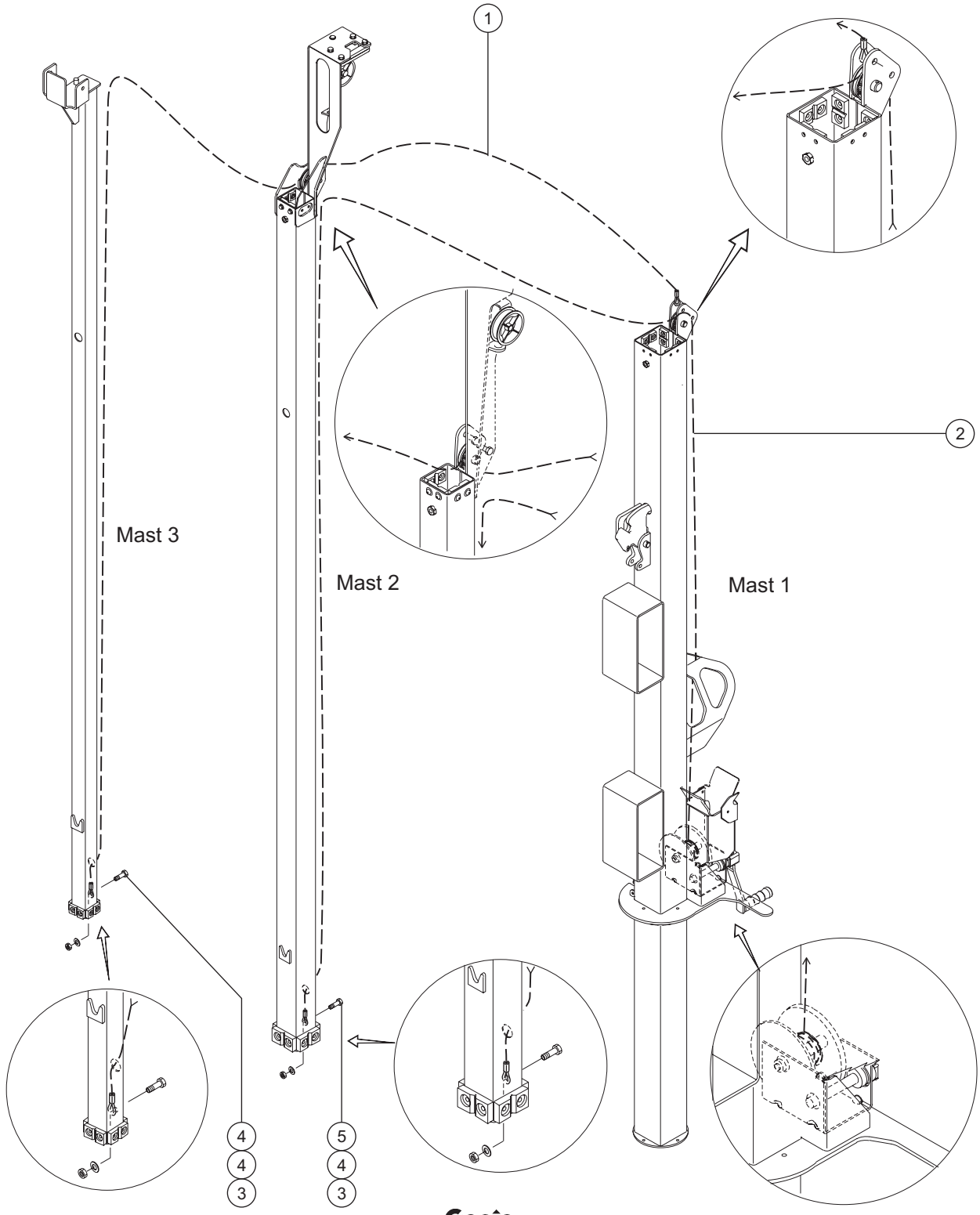
REV A FIGURE 407.1

Item	Part No.	Description	Qty.
1	47601	Wire Loom, 3/8 inch	6 inches
2	57430	Mast Harness, 120V AC	
—	57582	Electrical Cord, 16 Gauge	378 inches
—	85382	Connector Kit	
3	28443	Cable Tie, 11.5 inches	
4	28443	Cable Tie, 11.5 inches	

Figure 408.1

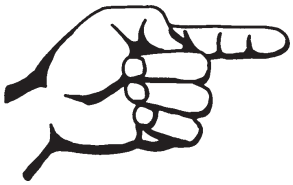
REV A

Mast Extension Cable Routing



REV A FIGURE 408.1

Item	Part No.	Description	Qty.
1	85260	Sequencing Cable Assembly	
2	80281	Winch Cable Assembly, Mast Extension	1
3	28487	Screw - BHHS, 3/8 -16 x 1 inch	
4	5397	Flat Washer, 5/16 inch	
5	4828	Nylock Nut, 3/8 -16	



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California Proposition 65

Warning

The exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Towing Checklist

(Use at each stop)

Before Towing	· Boom hold-down latch is securely locked in place · Towing hitch is properly secured to tow vehicle · Safety chains (if required) are properly attached and secure (chains are crossed below hitch) · All lights are connected and working · Tires are properly inflated
Before Driving	· Fasten safety restraints · Properly adjust mirrors
On The Road	· Do not exceed 60 mph / 97 km/h. Obey all local and national towing speed laws · Check connections and tire pressure at each stop · Slow down for hazardous conditions · Allow extra distance for following and passing other vehicles

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